



# Appendix W

## CoC's

### General





STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

**Report To:**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
Phone: **330-358-2920**  
Fax: **330-358-2924**  
Email: **eric.ellis@mkmengeers.com**

**Bill To:**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
Phone: **330-358-2920**  
Fax: **330-358-2924**  
PO #:

Lab Lot # **231465**

Sampler Name: **ERIC ELLIS**  
Sampler Signature: *[Signature]*  
Project Name: **Characterization of RVAAP 14 AOCs**  
Project Number: **04-02-0030**  
Project Location: **RVAAP - Ravenna, Ohio**  
Lab PM: **Nancy McDonald**

Package Sealed <input checked="" type="radio"/> Yes <input type="radio"/> No	Samples Sealed <input checked="" type="radio"/> Yes <input type="radio"/> No
Received on Ice <input checked="" type="radio"/> Yes <input type="radio"/> No	Samples Intact <input checked="" type="radio"/> Yes <input type="radio"/> No
Temperature C of Cooler <b>(4.2) (3.7) (4.5)</b>	
Within Hold Time <input checked="" type="radio"/> Yes <input type="radio"/> No	
Preserv. Indicated <input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	
pH Check OK <input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	
Res Cl2 Check OK <input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	
Sample Labels and COC Agree <input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> COC not present	

Date Required		Refr #																
Hard Copy	21 Days	#/ConL																
Fax/Email	14 Days	Volume																
		Preserv.																

Laboratory ID	MS/MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Additional Analyses / Remarks
1		LNWss-032M-SS	10-26-04	0935	S	C		X	X	X				
2		LNWss-029M-SS	10-25-04	1550	S	C		X	X	X				
3	X	LNWss-028M-SS	10-26-04	1020	S	C		X	X	X				MS/MSD
4		LNWss-028M-DUP	10-26-04	1020	S	C		X	X	X				
5		LNWss-033M-SS	10-26-04	1030	S	C		X	X	X				
6		L12mw-128-GW	10-27-04	1415	W	G	X	X	X	X	X	X	X	
7		L12mw-088-GW	10-26-04	1550	W	G	X	X	X	X	X	X	X	
8		L12mw-107-GW	10-27-04	0945	W	G	X	X	X	X	X	X	X	
9		TRIP BLANK	N/A	N/A	W		X							

Relinquished by: *[Signature]* Company: **MKM Engineers** Date: **10/27/04** Time: **1630**

Relinquished by: Company: **Stat-X (Courier for STL)** Date: Time:

Received By: Company: **Stat-X (Courier for STL)** Date: Time:

Received By: Company: **Fed Ex** Date: Time:

**Matrix Key**  
W - Water      WW - Wastewater      DL - Drum Liquid      A - Air  
S - Soil        SE - Sediment        DS - Drum Solid      OL - Oil  
SL - Sludge    L - Leachate        W - Wipe              O \_\_\_\_\_  
SO - Solid      M - Miscellaneous

Comments: *[Signature]* **10/28/04 0945**

Date Received: **10/28/04**  
Courier:  
Hand Delivered:  
Bill of Lading: *[Signature]*

Job Number.: 231465 Location.: 57Z22 Check List Number.: 1 Description.:  
 Customer Job ID.: Project Number.: 20004694 Project Description.: USACE RVAAP 14 AOCs Job Check List Date.: 10/28/2004 Date of the Report.: 11/12/2004  
 Customer.: MKM Engineers, Inc. Contact.: Eric Ellis Project Manager.: nsm

Questions ? (Y/N) Comments

- Chain-of-Custody Present?..... Y
- Were samples dropped off at or picked up by STL?.. N
- Custody seal on shipping container?..... Y
- ...if "yes", custody seal intact?..... Y
- Custody seals on sample containers?..... N
- ...if "yes", custody seal intact?.....
- Samples iced?..... Y
- Temperature of cooler acceptable? (4 deg C +/- 2). Y 4.2,3.7,4.5
- Samples received intact (good condition)?..... Y
- Volatile samples acceptable? (no headspace)..... Y
- Correct containers used?..... Y
- Adequate sample volume provided?..... Y
- Samples preserved correctly?..... Y
- Samples received within holding-time?..... Y
- Agreement between COC and sample labels?..... Y
- Radiactivity at or below background levels?..... Y
- A Sample Discrepancy Report (SDR) was needed?..... N
- If samples were shipped was there an air bill #?.. Y
- Sample Custodian Signature/Date..... Y



STL Sacramento  
 880 Riverside Parkway  
 West Sacramento, CA 95605  
 (916) 373-5600  
 Fax: (916) 372-1059

Report To:

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengineers.com	PO #:	

Bill To:

Contact:	Eric Ellis
Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920
Fax:	330-358-2924
PO #:	
Quote #:	

Lab Lot #

Package Sealed Yes No	Samples Sealed Yes No
Received on Ice Yes No	Samples Intact Yes No
Temperature C of Cooler	
Within Hold Time Yes No	
Preserv. Indicated Yes No N/A	
pH Check OK Yes No N/A	
Res Cl2 Check OK Yes No N/A	
Sample Labels and COC Agree Yes No COC not present	

Sampler Name: Eric Ellis  
 Sampler Signature: [Signature]  
 Project Name: **Characterization of RVAAP 14 AOCs**  
 Project Number: **04-02-0030**  
 Project Location: **RVAAP - Ravenna, Ohio**  
 Lab PM: **Nancy McDonald**

Date Required		Refrig #	
Hard Copy	21 Days	#/Cont	
Fax/Email	14 Days	Volume	
		Preserv	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	Propellants (Nitroguanidine/ Nitrocellulose)	Additional Analyses / Remarks
		L12MW-088-GW	10-26-04	1550	W	G	X	
		L12MW-107-GW	10-27-04	0945	W	G	X	
		L12MW-128-GW	10-27-04	1415	W	G	X	

RECEIVED IN GOOD CONDITION UNDER COC  
 OCT 28 2004  
 INT [Signature]

Relinquished by: <u>[Signature]</u>	Company: <b>MKM Engineers</b>	Date: <u>27 OCT 04</u>	Time: <u>1630</u>	Received By:	Company: <b>Stat-X (Courier for STL)</b>	Date:	Time:
Relinquished by:	Company: <b>Stat-X (Courier for STL)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:

**Matrix Key**  
 W - Water  
 S - Soil  
 SL - Sludge  
 SO - Solid  
 WW - Wastewater  
 SE - Sediment  
 L - Leachate  
 M - Miscellaneous  
 DL - Drum Liquid  
 DS - Drum Solid  
 W - Wipe  
 A - Air  
 OL - Oil  
 O - \_\_\_\_\_

Comments:

Date Received
Courier:
Hand Delivered:
Bill of Lading:

STL Chicago is part of Severn Trent Laboratories, Inc.

rec'd By: Chyl Huf 10-28-04 1230



# STL

LOT RECEIPT CHECKLIST  
STL Sacramento

CLIENT MKW PM PK LOG # 29403

LOT# (QUANTIMS ID) 645280367 QUOTE# W0857 LOCATION B11C

DATE RECEIVED 10/22/04 TIME RECEIVED 9:25 Initials MW Date 10/22/04

DELIVERED BY  FEDEX  CA OVERNIGHT  CLIENT  
 AIRBORNE  GOLDENSTATE  DHL  
 UPS  BAX GLOBAL  GO-GETTERS  
 STL COURIER  COURIERS ON DEMAND  
 OTHER

CUSTODY SEAL STATUS  INTACT  BROKEN  N/A

CUSTODY SEAL #(S) 6119a7  CLIENT  N/A

SHIPPING CONTAINER(S)  STL  CLIENT  N/A

TEMPERATURE RECORD (IN °C) IR 1  3  OTHER

COC #(S) \_\_\_\_\_

TEMPERATURE BLANK 2°C

SAMPLE TEMPERATURE 6°C

COLLECTOR'S NAME:  Verified from COC  Not on COC

PH MEASURED  YES  ANOMALY  N/A

LABELLED BY: \_\_\_\_\_

LABELS CHECKED BY: \_\_\_\_\_ PEER REVIEW  N/A

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING  
WETCHEM  N/A  
VOA-ENCORES  N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL  N/A  
 COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES  N/A  
 clouseau  TEMPERATURE EXCEEDED (2 °C - 6 °C)  N/A  
 WET ICE  BLUE ICE  GEL PACK  NO COOLING AGENTS USED  PM NOTIFIED

Notes: \_\_\_\_\_

\*1 Acceptable temperature range for State of Wisconsin samples is ≤4°C.

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

**Report To:**

**Bill To:**

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengeers.com	PO #:	

Lab Lot # 231493

Sampler Name:	
Sampler Signature:	
Project Name:	Characterization of RVAAP 14 AOCs
Project Number:	04-02-0030
Project Location:	RVAAP - Ravenna, Ohio
Lab PM:	Nancy McDonald

Package Sealed	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Samples Sealed	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Received on Ice	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Samples Intact	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Temperature C of Cooler	(3.0) (3.2) (5.1) (3.3)		
Within Hold Time	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Preserv. Indicated	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
pH Check OK	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Res Cl2 Check OK	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Sample Labels and COC Agree	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> COC not present		

Date Required		Relig #	
Hard Copy	21 Days	# / Cont	
Fax/Email	14 Days	Volume	
		Preserv.	

Laboratory ID	MS/MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Additional Analyses / Remarks
1		WSAss-003M-SS	10-26-04	14:05	S	C			X	X				
2		WSAss-001M-SS	10-27-04	08:55	S	C			X	X				
3		LNWss-036M-SS	10-26-04	11:30	S	C		X	X	X				
4		LNWss-031M-QA	10-26-04	14:45	S	C		X	X	X				
5		WSAss-002M-SS	10-26-04	14:45	S	C			X	X				
6		WSAss-004M-SS	10-26-04	13:30	S	C		X	X	X	X	X		
7		LNWss-031M-SS	10-26-04	14:10	S	C		X	X	X				
8		LNWss-035M-SS	10-26-04	11:05	S	C		X	X	X				
9		WSAss-007M-SS	10-27-04	10:10	S	C			X	X				
10		F15ss-004M-ER	10-28-04	12:00	W	G			X	X				
11		F15ss-006D-SS	10-28-04	13:50	S	G	X							

Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:
<i>Michael Hall</i>	MKM Engineers	10-29-04	16:45		Stat-X (Courier for STL)		
Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:
	Stat-X (Courier for STL)				Fed Ex		

**Matrix Key**  
W - Water      WW - Wastewater      DL - Drum Liquid      A - Air  
S - Soil        SE - Sediment        DS - Drum Solid      OL - Oil  
SL - Sludge    L - Leachate        W - Wipe              O - \_\_\_\_\_  
SO - Solid      M - Miscellaneous

STL Chicago is part of Severn Trent Laboratories, Inc.

Comments:	Date Received
<i>Stat 10/29/04 0920</i>	10-29-04
	Courier: <i>FX</i>
	Hand Delivered:
	Bill of Lading: <i>See attach</i>



STL Chicago  
2417 Bond St.  
University Park, IL 60486  
708-534-5200  
Fax: 708-534-5211

**Report To:**

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-368-2920	Phone:	330-368-2920
Fax:	330-368-2924	Fax:	330-368-2924
Email:	eric.ellis@mkmengeers.com	PO #:	

**Bill To:**

Contact:	Eric Ellis
Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-368-2920
Fax:	330-368-2924
PO #:	

Lab Lot # 231493

23

Sampler Name:  
Sampler Signature:  
Project Name: **Characterization of RVAAP 14 AOCs**  
Project Number: **04-02-0030**  
Project Location: **RVAAP - Ravenna, Ohio**  
Lab PM: **Nancy McDonald**

Package Sealed Yes No	Samples Sealed Yes No
Received on Ice Yes No	Samples Intact Yes No
Temperature C of Cooler	
Within Hold Time Yes No	
Presery: Indicated Yes No N/A	
pH Check OK Yes No N/A	
Res. CL2 Check OK Yes No N/A	
Sample Labels and OGC Agree Yes No OGC not present	

Date Required		Req #																
Hard Copy	21 Days	# / Cont.																
Fax/Email	14 Days	Volume																
		Presery																

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Peat/PCBs	Nitrate	Additional Analyses / Remarks
12		LL12mw-189-GW	10-28-04	11:15	W	G	X	X	X	X	X	X	X	
13		LL12mw-188-GW	10-28-04	09:40	W	G	X	X	X	X	X	X	X	
14		LL12mw-153-GW	10-28-04	13:30	W	G	X	X	X	X	X	X	X	
15		LL12mw-154-GW	10-28-04	14:45	W	G	X	X	X	X	X	X	X	
16		TRIP BLANK	N/A	N/A	W		X							

Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <i>[Signature]</i>	Company: <b>SM</b>	Date: <b>10/29/04</b>	Time: <b>0920</b>
Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:

Matrix Key  
W - Water  
S - Soil  
SL - Sludge  
SO - Solid  
WW - Wastewater  
SE - Sediment  
L - Leachate  
M - Miscellaneous  
DL - Drum Liquid  
DS - Drum Solid  
W - Wipe  
A Air  
OL - Oil  
O \_\_\_\_\_  
STL Chicago is part of Severn Trent Laboratories, Inc.

Comments:

Date Received	10/29/04
Courier:	[Signature]
Hand Delivered:	
Bill of Lading:	see attached

rpjsckl	Job Sample Receipt Checklist Report		V2
Job Number.: 231493	Location.: 57222	Check List Number.: 1	Description.: Date of the Report...: 11/18/2004
Customer Job ID.....:	Job Check List Date.: 11/02/2004		Project Manager.....: nsm
Project Number.: 20004694	Project Description.: USACE RVAAP 14 AOCs		
Customer.....: MKM Engineers, Inc.	Contact.: Eric Ellis		
Questions ?	(Y/N) Comments		
Chain-of-Custody Present?.....	Y		
Were samples dropped off at or picked up by STL?..	N		
Custody seal on shipping container?.....	Y		
...If "yes", custody seal intact?.....	Y		
Custody seals on sample containers?.....	N		
...If "yes", custody seal intact?.....			
Samples iced?.....	Y		
Temperature of cooler acceptable? (4 deg C +/- 2).	Y 3.8,3.2,5.1,3.3		
Samples received intact (good condition)?.....	Y		
Volatile samples acceptable? (no headspace).....	Y		
Correct containers used?.....	Y		
Adequate sample volume provided?.....	Y		
Samples preserved correctly?.....	Y		
Samples received within holding-time?.....	Y		
Agreement between COC and sample labels?.....	Y		
Radioactivity at or below background levels?.....	Y		
A Sample Discrepancy Report (SDR) was needed?.....	N		
If samples were shipped was there an air bill #?..	Y		
Sample Custodian Signature/Date.....	Y		



Report To:

Bill To:

STL Sacramento  
880 Riverside Parkway  
West Sacramento, CA 95605  
(910) 373-5600  
Fax: (916) 372-1059

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengineers.com	PO #:	
		Quote #:	

Lab Lot #

Sampler Name:	
Sampler Signature:	
Project Name:	Characterization of RVAAP 14 AOCs
Project Number:	04-02-0030
Project Location:	RVAAP - Ravenna, Ohio
Lab PM:	Nancy McDonald

Package Sealed	Yes	No	Samples Sealed	Yes	No
Received on Ice	Yes	No	Samples Intact	Yes	No
Temperature C. of Cooler					

Within Hold Time	Yes	No	
Preserv. Indicated	Yes	No	N/A
pH Check OK	Yes	No	N/A
Res. CL2 Check OK	Yes	No	N/A

Sample Labels and COC Agree	Yes	No	COC not present
-----------------------------	-----	----	-----------------

Date Required		Refrg #	
Hard Copy	21 Days	# / Cont.	
Fax/Email	14 Days	Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	Propellants (Nitroguanidine/Nitrocellulose)	Additional Analyses / Remarks
		WSAss-004M-SS	10-26-04	13:30	S	C	X	
		LL12mw-189-GW	10-26-04	11:15	W	G	X	
		LL12mw-188-GW	10-28-04	09:40	W	G	X	
		LL12mw-153-GW	10-28-04	13:30	W	G	X	
		LL12mw-154-GW	10-28-04	14:45	W	G	X	

RECEIVED IN GOOD CONDITION  
UNDER COC  
OCT 29 2004  
INI

Relinquished by:	Company: MKM Engineers	Date: 10-28-04	Time: 16:45	Received By:	Company: Stat-X (Courier for STL)	Date:	Time:
Relinquished by:	Company: Stat-X (Courier for STL)	Date:	Time:	Received By:	Company: Fed Ex	Date:	Time:
Relinquished by:	Company: FedEx	Date:	Time:	Received By:	Company: Stat-X	Date: 10/22/04	Time: 11:20

<b>Matrix Key</b>			
W - Water	WW - Wastewater	DL - Drum Liquid	A Air
S - Soil	SE - Sediment	DS - Drum Solid	OL - Oil
SL - Sludge	L - Leachate	W - Wipe	O _____
SO - Solid	M - Miscellaneous		

Comments:	Date Received
	Courier:
	Hand Delivered:
	Bill of Lading:



STL

LOT RECEIPT CHECKLIST  
STL Sacramento

CLIENT STL - Chicago PM RA LOG # 29419

LOT# (QUANTIMS ID) G4J290255 QUOTE# 66957 LOCATION WISA

DATE RECEIVED 10/29/04 TIME RECEIVED 9:15

- DELIVERED BY
- FEDEX
  - AIRBORNE
  - UPS
  - STL COURIER
  - OTHER
  - CA OVERNIGHT
  - GOLDENSTATE
  - BAX GLOBAL
  - COURIERS ON DEMAND
  - CLIENT
  - DHL
  - GO-GETTERS

CUSTODY SEAL STATUS  INTACT  BROKEN  N/A

CUSTODY SEAL #(S) 613437, 613437

SHIPPING CONTAINER(S)  STL  CLIENT  N/A

TEMPERATURE RECORD (IN °C) IR 1  3   OTHER \_\_\_\_\_

COC #(S) N/A

TEMPERATURE BLANK 3°C

SAMPLE TEMPERATURE 4°C

COLLECTOR'S NAME:  Verified from COC  Not on COC

pH MEASURED  YES  ANOMALY  N/A

LABELLED BY.....

LABELS CHECKED BY.....

PEER REVIEW  N/A

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING  
WETCHEM  N/A  
VOA-ENCORES  N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL  N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES  N/A

Clouseau  TEMPERATURE EXCEEDED (2 °C - 6 °C)\*1  N/A

WET ICE  BLUE ICE  GEL PACK  NO COOLING AGENTS USED  PM NOTIFIED

Initials	Date
<u>RA</u>	<u>10/29/04</u>
<u>oe</u>	<u>10/29/04</u>

\*1 Acceptable temperature range for State of Wisconsin samples is ≤4°C.

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

**Report To:**

**Bill To:**

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengeers.com	PO #:	

Lab Lot # **231542**

Package Sealed Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Sample Sealed Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Received on Ice Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Sample Intact Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Temperature Cool Cool (37) (31) (25) (30) (41)	
Within Hold Time Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Preserv. Indicated Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
pH Check OK Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Rax CL2 Check OK Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sample Labels and CDC Agree Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> CDC not present	

Sampler Name: \_\_\_\_\_  
Sampler Signature: \_\_\_\_\_  
Project Name: **Characterization of RVAAP 14 AOCs**  
Project Number: **04-02-0030**  
Project Location: **RVAAP - Ravenna, Ohio**  
Lab PM: **Nancy McDonald**

Date Required		Refr #	
Hard Copy	21 Days	#/Cont	
Fax/Email	14 Days	Volume	
		Priority	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Additional Analyses / Remarks
1		WSAss-005M-SS	10-27-04	09:35	S	C			X	X				
2		WSAss-016M-SS	10-27-04	11:55	S	C			X	X				
3		LL8ss-002M-SS	10-27-04	14:50	S	C			X	X				
4		WSAss-006M-SS	10-27-04	09:15	S	C			X	X				
5		WSAss-005M-DUP	10-27-04	09:35	S	C			X	X				
6		F16ss-006M-SS	10-28-04	08:55	S	C			X	X				
7		WSAss-016M-QA	10-27-04	12:10	S	C			X	X				
8		WSAss-014M-DUP	10-27-04	11:50	S	C			X	X				
9		WSAss-015M-SS	10-27-04	11:25	S	C			X	X				
10		LL8ss-006M-SS	10-27-04	15:15	S	C			X	X				
11	X	F15ss-004M-SS	10-27-04	13:15	S	C			X	X				MS/MSD
12		LL8ss-001M-SS	10-27-04	15:30	S	C			X	X				

Relinquished by: <i>Michael [Signature]</i>	Company: <b>MKM Engineers</b>	Date: <b>10/29/04</b>	Time: <b>16:30</b>	Received By:	Company: <b>Stat-X (Courier for STL)</b>	Date:	Time:
Relinquished by:	Company: <b>Stat-X (Courier for STL)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:

**Matrix Key**  
W - Water      WW - Wastewater      DL - Drum Liquid      A - Air  
S - Soil        SE - Sediment        DS - Drum Solid      OL - Oil  
SL - Sludge    L - Leachate        W - Wipe              O - \_\_\_\_\_  
SO - Solid      M - Miscellaneous

Comments: **Ykt 10/30/04 #115**  
**5 coolers in shipment**

Date Received: **10/30/04**  
Courier: **FE**  
Hand Delivered:  
Bill of Lading: **see attach**

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

**Report To:**

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengeers.com	PO #:	

**Bill To:**

Contact:	Eric Ellis
Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920
Fax:	330-358-2924
PO #:	
Quote #:	

Lab Lot # 231542

32

Sampler Name:	
Sampler Signature:	
Project Name:	Characterization of RVAAP 14 AOCs
Project Number:	04-02-0030
Project Location:	RVAAP - Ravenna, Ohio
Lab PM:	Nancy McDonald

Package Sealed	Yes	No	Samples Sealed	Yes	No
Received on Ice	Yes	No	Samples Intact	Yes	No
Temperature of Cooler					
Within Hold Time	Yes	No	Presery Indicated	Yes	No
pH Check OK	Yes	No	Free Cl2 Check OK	Yes	No
Sample Labels and COC Agree	Yes	No	COC not present		

Date Required	21 Days	Ref #	
Hard Copy	14 Days	#/Cont	
Fax/Email		Volume	
		Presery	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Additional Analyses / Remarks
13		LL12mw-167-GW	10-29-04	09:25	W	G	X	X	X	X	X	X	X	
14		LL12mw-184-GW	10-29-04	10:40	W	G	X	X	X	X	X	X	X	
15		WSAss-014M-SS	10-27-04	11:50	S	C			X	X				
16		LL8ss-003M-SS	10-27-04	14:30	S	C			X	X				
17		WSAss-017M-SS	10-27-04	11:20	S	C			X	X				
18		F15ss-006M-SS	10-28-04	13:40	S	C		X	X	X	X	X		
19		F15ss-007M-SS	10-28-04	09:45	S	C			X	X				
20		F15ss-005M-SS	10-28-04	13:25	S	C			X	X				
21		LL12mw-182-GW	10-29-04	13:45	W	G	X	X	X	X	X	X	X	
22		LL12mw-182-DUP	10-29-04	13:45	W	G	X	X	X	X	X	X	X	
23		TRIP BLANK	LAB	LAB	W	G	X							

Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <i>[Signature]</i>	Company: <i>en</i>	Date: <u>10/30/04</u>	Time: <u>09:11:15</u>
Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:

**Matrix Key**  
W - Water      WW - Wastewater      DL - Drum Liquid      A - Air  
S - Soil        SE - Sediment        DS - Drum Solid      OL - Oil  
SL - Sludge    L - Leachate        W - Wipe              O - \_\_\_\_\_  
SO - Solid      M - Miscellaneous

STL Chicago is part of Severn Trent Laboratories, Inc.

Comments:	Date Received
	Courier:
	Hand Delivered:
	Bill of Lading:

rpjsckl		Job Sample Receipt Checklist Report		V2
Job Number.: 231542	Location.: 57222	Check List Number.: 1	Description.:	Date of the Report.: 11/15/2004
Customer Job ID.....:		Job Check List Date.: 10/30/2004		Project Manager.....: nsm
Project Number.: 20004694	Project Description.: USACE RVAAP 14 AOC5			
Customer.....: MKM Engineers, Inc.		Contact.: Eric Ellis		
Questions ?	(Y/N) Comments			
Chain-of-Custody Present?.....	Y			
Were samples dropped off at or picked up by STL?..	N			
Custody seal on shipping container?.....	Y			
...If "yes", custody seal intact?.....	Y			
Custody seals on sample containers?.....	N			
...If "yes", custody seal intact?.....				
Samples iced?.....	Y			
Temperature of cooler acceptable? (4 deg C +/- 2). Y		3.7,3.1,4.5,3.0,4.1		
Samples received intact (good condition)?.....	Y			
Volatile samples acceptable? (no headspace).....	Y			
Correct containers used?.....	Y			
Adequate sample volume provided?.....	Y			
Samples preserved correctly?.....	Y			
Samples received within holding-time?.....	Y			
Agreement between COC and sample labels?.....	Y			
Radioactivity at or below background levels?.....	Y			
A Sample Discrepancy Report (SDR) was needed?.....	N			
If samples were shipped was there an air bill #?..	Y			
Sample Custodian Signature/Date.....	Y			



STL

STL Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
(910) 373-5600
Fax: (916) 372-1059

Report To:

Contact: Eric Ellis
Company: MKM Engineers, Inc.
Address: 8451 State Route 5, Ravenna, OH 44266
Phone: 330-358-2920
Fax: 330-358-2924
Email: eric.ellis@mkmengineers.com

Bill To:

Contact: Eric Ellis
Company: MKM Engineers, Inc.
Address: 8451 State Route 5, Ravenna, OH 44266
Phone: 330-358-2920
Fax: 330-358-2924
PO #:

Lab Lot #

Package Sealed: Yes No
Samples Sealed: Yes No
Received on Ice: Yes No
Samples Intact: Yes No
Temperature C of Cooler
Within Hold Time: Yes No
Preserv. Indicated: Yes No N/A
pH Check OK: Yes No N/A
Res. CL2 Check OK: Yes No N/A
Sample Labels and COC Agree: Yes No COC not present

Sampler Name:
Sampler Signature:
Project Name: Characterization of RVAAP 14 AOCs
Project Number: 04-02-0030
Project Location: RVAAP - Ravenna, Ohio
Lab PM: Nancy McDonald

Table with columns: Date Required, Hard Copy, Fax/Email, Refrig #, #/Cont., Volume, Preserv.

Main data table with columns: Laboratory ID, MS-MSD, Client Sample ID, Sampling Date, Sampling Time, Matrix, Comp/Grab, Propellants (Nitrogandine/Nitrocellulose), Additional Analyses / Remarks

Relinquished by: [Signature] Company: MKM Engineers Date: 10/29/04 Time: 16:30
Received By: Stat-X (Courier for STL)
Relinquished by: Stat-X (Courier for STL)
Received By: Fed Ex
Relinquished by: FedEx
Received By: [Signature] STL SAC Date: 10-30-04 Time: 12:00

Matrix Key
W - Water DL - Drum Liquid A Air
S - Soil SE - Sediment OL - Oil
SL - Sludge L - Leachate W - Wipe O
SO - Solid M - Miscellaneous

Comments:
Date Received:
Courier:
Hand Delivered:
Bill of Lading:

STL Chicago is part of Severn Trent Laboratories, Inc.

\*veid 500AGB broken on 10-30-04





# STL

## LOT RECEIPT CHECKLIST STL Sacramento

CLIENT MMM PM RA LOG # 29432  
 LOT# (QUANTIMS ID) 645300233 QUOTE# 60857 LOCATION W23A

DATE RECEIVED 10-30-04 TIME RECEIVED 920 Initials RA Date 10-30-04

- DELIVERED BY
- FEDEX
  - AIRBORNE
  - UPS
  - STL COURIER
  - OTHER
  - CA OVERNIGHT
  - GOLDENSTATE
  - BAX GLOBAL
  - COURIERS ON DEMAND
  - CLIENT
  - DHL
  - GO-GETTERS

CUSTODY SEAL STATUS  INTACT  BROKEN  N/A  
 CUSTODY SEAL #(S) 611922, 611977  
 SHIPPING CONTAINER(S)  STL  CLIENT  N/A  
 TEMPERATURE RECORD (IN °C) IR 1  3  OTHER   
 COC #(S) 1A  
 TEMPERATURE BLANK 2  
 SAMPLE TEMPERATURE 3

COLLECTOR'S NAME:  Verified from COC  Not on COC

pH MEASURED  YES  ANOMALY  N/A

LABELLED BY.....  
 LABELS CHECKED BY.....  
 PEER REVIEW  NA

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING

- WETCHEM  N/A
- VOA-ENCORES  N/A

- METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL  N/A
- COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES  N/A
- Clouseau  TEMPERATURE EXCEEDED (2 °C - 6 °C)\*\*  N/A
- WET ICE  BLUE ICE  GEL PACK  NO COOLING AGENTS USED  PM NOTIFIED

Notes: #315 - rec'd 1 of 2 500AGB broken.

\*1 Acceptable temperature range for State of Wisconsin samples is  $\leq 4^{\circ}\text{C}$ .

STL Chicago  
2417 Bond St.  
University Park, IL 60486  
708-534-5200  
Fax: 708-534-5211

**Report To:**

**Bill To:**

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengineers.com	PO #:	

Lab Lot # 231579

Sampler Name:	<u>ERIC ELLIS</u>
Sampler Signature:	<u>[Signature]</u>
Project Name:	Characterization of RVAAP 14 AGCs
Project Number:	04-02-0030
Project Location:	RVAAP - Ravenna, Ohio
Lab PM:	Nancy McDonald

Package Sealed	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Samples Sealed	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Received on Ice	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Samples Impact	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Temperature of Cooler	(33) (3.8) (4.5) (4.2)	Within Hold Time	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Pressure Indicated	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	pH Check OK	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Repl CL2 Check OK	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Sample Labels and COC Agree	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> COC not present

Date Required		Refr #	
Hard Copy	21 Days	# / Cont.	
Fax/Email	14 Days	Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pestic/PCBs	Nitrate	Additional Analyses / Remarks
1		L12mw-186-GW	11-01-04	1145	W	G	x	x	x	x	x	x	x	
2		L12mw-183-GW	11-01-04	1020	W	G	x	x	x	x	x	x	x	
3		L12mw-185-GW	11-01-04	0905	W	G	x	x	x	x	x	x	x	
4		LL8ss-004M-SS	10-29-04	1135	S	C			x	x				
5		WSAss-008M-SS	10-29-04	1030	S	C			x	x				
6		F15ss-010M-SS	10-28-04	1515	S	C			x	x				
7		WSAss-010M-SS	10-28-04	0955	S	C			x	x				
8		F15ss-003M-SS	10-28-04	1440	S	C			x	x				
9		F15ss-008M-SS	10-28-04	1035	S	C			x	x				
10		F15ss-011M-SS	10-28-04	1400	S	C			x	x				
11		WSAss-012M-SS	10-28-04	0920	S	C			x	x				
12		F15ss-001M-SS	10-28-04	1115	S	C			x	x				

Relinquished by: <u>[Signature]</u>	Company: <b>MKM Engineers</b>	Date: <u>11/1/04</u>	Time: <u>1600</u>	Received By:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <u>[Signature]</u>	Company: <u>STL</u>	Date: <u>11/2/04</u>	Time: <u>0840</u>

**Matrix Key**  
W - Water      WW - Wastewater      DL - Drum Liquid      A - Air  
S - Soil        SE - Sediment        DS - Drum Solid      OL - Oil  
SL - Sludge    L - Leachate        W - Wipe              O \_\_\_\_\_  
SO - Solid      M - Miscellaneous

Comments: \_\_\_\_\_

Date Received: 11/2/04  
Courier: PT  
Hand Delivered: \_\_\_\_\_  
Bill of Lading: see attach

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax, 708-534-5211

Report To:

Bill To:

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 6 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengineers.com	PO #:	

Lab Lot # 231579

Sampler Name:	<i>Eric Ellis</i>
Sampler Signature:	<i>[Signature]</i>
Project Name:	Characterization of RVAAP 14 AOCs
Project Number:	04-02-0030
Project Location:	RVAAP - Ravenna, Ohio
Lab PM:	Nancy McDonald

Package Sealed Yes No	Samples Sealed Yes No
Received on Ice Yes No	Samples Intact Yes No
Temperature C of Cooler:	
Within Hold Time Yes No	
Preserv. Indicated Yes No N/A	
pH Check OK Yes No N/A	
Res Cl2 Check OK Yes No N/A	
Sample Labels and COC Agree Yes No COC not present	

Date Required	21 Days	Refrg #	
Hard Copy	14 Days	# / Cont.	
Fax/Email		Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Additional Analyses / Remarks
13		WSAss-009M-SS	10-29-04	1015	S	C			X	X				
14		F15ss-002M-SS	10-28-04	1425	S	C			X	X				
15		F15ss-009M-DUP	10-28-04	1500	S	C			X	X				
16		F15ss-009M-SS	10-28-04	1500	S	C			X	X				
17		LL8ss-005D-DUP	11-01-04	1020	S	G	X							
18		LNWss-039D-SS	11-01-04	1150	S	G	X							
19		WSAss-011D-SS	11-01-04	0920	S	G	X							
20		LL8ss-005D-SS	11-01-04	1020	S	G	X							
21		TRIP BLANK	LAB	LAB			X							

Relinquished by: <i>[Signature]</i>	Company: MKM Engineers	Date: 11/1/04	Time: 1630	Received By:	Company: STL North Canton (Courier)	Date:	Time:
Relinquished by:	Company: STL North Canton (Courier)	Date:	Time:	Received By:	Company: FedEx	Date:	Time:
Relinquished by:	Company: FedEx	Date:	Time:	Received By: <i>[Signature]</i>	Company: <i>SN</i>	Date: 11/2/04	Time: 0840

Matrix Key  
W - Water  
S - Soil  
SL - Sludge  
SO - Solid  
WW - Wastewater  
SE - Sediment  
L - Leachate  
M - Miscellaneous  
DL - Drum Liquid  
DS - Drum Solid  
W - Wipe  
A - Air  
OL - Oil  
O \_\_\_\_\_

Comments: <i>[Signature]</i>	Date Received: 11/2/04
	Courier: <i>EX</i>
	Hand Delivered:
	Bill of Lading: <i>see attach</i>

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number.: 231579 Location.: 57222 Check List Number.: 1 Description.:  
 Customer Job ID.....: Job Check List Date.: 11/02/2004 Date of the Report...: 11/16/2004  
 Project Number.: 20004694 Project Description.: USACE RVAAP 14 AOCs Project Manager.....: nam  
 Customer.....: MKM Engineers, Inc. Contact.: Eric Ellis

Questions ? (Y/N) Comments

Chain-of-Custody Present?..... Y  
 Were samples dropped off at or picked up by STL?.. N  
 Custody seal on shipping container?..... Y  
 ...If "yes", custody seal intact?..... Y  
 Custody seals on sample containers?..... N  
 ...If "yes", custody seal intact?.....  
 Samples iced?..... Y  
 Temperature of cooler acceptable? (4 deg C +/- 2). Y 3.3,3.8,4.5,4.2  
 Samples received intact (good condition)?..... Y  
 Volatile samples acceptable? (no headspace)..... Y  
 Correct containers used?..... Y  
 Adequate sample volume provided?..... Y  
 Samples preserved correctly?..... Y  
 Samples received within holding-time?..... Y  
 Agreement between COC and sample labels?..... Y  
 Radioactivity at or below background levels?..... Y  
 A Sample Discrepancy Report (SDR) was needed?..... N  
 If samples were shipped was there an air bill #?.. Y  
 Sample Custodian Signature/Date..... Y

STL Sacramento  
880 Riverside Parkway  
West Sacramento, CA 95605  
(910) 373-5600  
Fax. (916) 372-1059

Report To:

Contact: Eric Ellis  
Company: MKM Engineers, Inc.  
Address: 8451 State Route 5  
Ravenna, OH 44266  
Phone: 330-358-2920  
Fax: 330-358-2924  
Email: eric.ellis@mkmengineers.com

Bill To:

Contact: Eric Ellis  
Company: MKM Engineers, Inc.  
Address: 8451 State Route 5  
Ravenna, OH 44266  
Phone: 330-358-2920  
Fax: 330-358-2924  
PO #:   
Quote #:

Lab Lot #

Package Sealed Yes No	Samples Sealed Yes No
Received on Ice Yes No	Samples Intact Yes No
Temperature C of Cooler	
Within Hold Time Yes No	
Preserv. Indicated Yes No N/A	
pH Check OK Yes No N/A	
Res Cl2 Check OK Yes No N/A	
Sample Labels and COC Agree Yes No COC not present	

Sampler Name: ERIC ELLIS  
Sampler Signature: *[Signature]*  
Project Name: Characterization of RVAAP 14 AOCs  
Project Number: 04-02-0030  
Project Location: RVAAP - Ravenna, Ohio  
Lab PM: Nancy McDonald

Date Required	21 Days	Refrg #	
Hard Copy	14 Days	# / Cont.	
Fax/Email		Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	Propellants (Nitroguanidine/Nitrocellulose)	Additional Analyses / Remarks
		L12mw-186-GW	11-01-04	1145	W	G	x	
		L12mw-183-GW	11-01-04	1020	W	G	x	
		L12mw-185-GW	11-01-04	0905	W	G	x	Disregard sample time 1350 on one bottle

RECEIVED IN GOOD CONDITION UNDER COC  
NOV 02 2004  
NI Ge

Relinquished by: *[Signature]* Company: MKM Engineers Date: 11/1/04 Time: 1630

Relinquished by: Company: STL North Canton (Courier) Date: Time:

Relinquished by: Company: FedEx Date: Time:

Received By: Company: STL North Canton (Courier) Date: Time:

Received By: Company: Fed Ex Date: Time:

Received By: *[Signature]* Company: STSAR Date: 11-2-04 Time: 1050

**Matrix Key**  
W - Water  
S - Soil  
SL - Sludge  
SO - Solid  
WW - Wastewater  
SE - Sediment  
L - Leachate  
M - Miscellaneous  
DL - Drum Liquid  
DS - Drum Solid  
W - Wipe  
A Air  
OL - Oil  
O \_\_\_\_\_

Comments:

Date Received

Courier:

Hand Delivered:

Bill of Lading:



# STL

### LOT RECEIPT CHECKLIST STL Sacramento

CLIENT STL-CHICAGO PM Del LOG # 29452  
 LOT# (QUANTIMS ID) 64K020224 QUOTE# 60857 LOCATION WISC

DATE RECEIVED 11-2-04 TIME RECEIVED 0910

Initials Ge Date 11-2-04

- DELIVERED BY
- FEDEX
  - AIRBORNE
  - UPS
  - STL COURIER
  - OTHER
  - CA OVERNIGHT
  - GOLDENSTATE
  - BAX GLOBAL
  - COURIERS ON DEMAND
  - CLIENT
  - DHL
  - GO-GETTERS

CUSTODY SEAL STATUS  INTACT  BROKEN  N/A

CUSTODY SEAL #(S) 613287 613277

SHIPPING CONTAINER(S)  STL  CLIENT  N/A

TEMPERATURE RECORD (IN °C) IR 1  3  OTHER

COC #(S) N/A

TEMPERATURE BLANK cc in vial N/A 3°C

SAMPLE TEMPERATURE 3°C

COLLECTOR'S NAME:  Verified from COC.  Not on COC

PH MEASURED  YES  ANOMALY  N/A

LABELLED BY.....

LABELS CHECKED BY.....

PEER REVIEW .....  N/A

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING

WETCHEM  N/A

VOA-ENCORES  N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL  N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES  N/A

Clouseau  TEMPERATURE EXCEEDED (2 °C - 6 °C)\*1  N/A

WET ICE  BLUE ICE  GEL PACK  NO COOLING AGENTS USED

PM NOTIFIED

Initials	Date
Ge	11-2-04

\*1 Acceptable temperature range for State of Wisconsin samples is ≤4°C.

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

**Report To:**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
Phone: **330-358-2920**  
Fax: **330-358-2924**  
Email: **eric.ellis@mkmengeers.com**

**Bill To:**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
Phone: **330-358-2920**  
Fax: **330-358-2924**  
PO #:

Lab Lot # **231611**

Sampler Name: **ERIC ELLIS**  
Sampler Signature: *[Signature]*  
Project Name: **Characterization of RVAAP 14 AOCs**  
Project Number: **04-02-0030**  
Project Location: **RVAAP - Ravenna, Ohio**  
Lab PM: **Nancy McDonald**

Package Sealed <input checked="" type="radio"/> Yes <input type="radio"/> No	Samples Sealed <input checked="" type="radio"/> Yes <input type="radio"/> No
Recoiled on Ice <input checked="" type="radio"/> Yes <input type="radio"/> No	Samples Intact <input checked="" type="radio"/> Yes <input type="radio"/> No
Temperature C of Cooler <b>(4.1) (3.7) (3.5) (4.0)</b>	
Within Hold Time <input checked="" type="radio"/> Yes <input type="radio"/> No	
Preserv. Indicated <input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	
pH Check OK <input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	
Res. GLS Check OK <input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	
Sample Labels and COC Agree <input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> COC not present	

Date Required		Refug #																		
Hard Copy	21 Days	# / Cent.																		
Fax/Email	14 Days	Volume																		
		Preserv.																		

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Additional Analyses / Remarks
1		LNWsw-051-SW	11-02-04	0945	W	G	x	x	x	x	x	x		
2		LL8sw-016-SW	11-02-04	1110	W	G	x	x	x	x		x	x	
3		LNWsw-050-SW	11-02-04	1130	W	G	x	x	x	x	x	x		
4		LNWss-034D-SS	11-01-04	1425	S	G	x							
5		LL8ss-015D-SS	11-02-04	1108	S	G	x							
6		LNWss-037M-SS	11-01-04	1015	S	C		x	x	x				
7		LNWss-034M-SS	11-01-04	1415	S	C		x	x	x	x	x		
8		LNWss-041M-SS	11-01-04	1515	S	C		x	x	x				
9		LNWss-038M-SS	11-01-04	1055	S	C		x	x	x				
10		LNWss-037M-DUP	11-01-04	1015	S	C		x	x	x				
11		LNWss-040M-SS	11-01-04	1560	S	C		x	x	x				
12		LL8ss-016M-SS	11-01-04	1605	S	C			x	x				

Relinquished by: <i>[Signature]</i>	Company: <b>MKM Engineers</b>	Date: <b>11/2/04</b>	Time: <b>1630</b>	Received By:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <i>[Signature]</i>	Company: <b>SR</b>	Date: <b>11/3/04</b>	Time: <b>0910</b>

**Matrix Key**  
W - Water      WW - Wastewater      DL - Drum Liquid      A - Air  
S - Soil        SE - Sediment        DS - Drum Solid      OL - Oil  
SL - Sludge    L - Leachate        W - Wipe              O - \_\_\_\_\_  
SO - Solid      M - Miscellaneous

Comments: *[Signature]*

Date Received: **11/3/04**  
Courier: **PK**  
Hand Delivered:  
Bill of Lading: *[Signature]*

STL Chicago is part of Severn Trent Laboratories, Inc.

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengeers.com	PO #:	

Lab Lot # 231611

Sampler Name:	ERIC ELLIS
Sampler Signature:	<i>ERIC ELLIS</i>
Project Name:	Characterization of RVAAP 14 AOCs
Project Number:	04-02-0030
Project Location:	RVAAP - Ravenna, Ohio
Lab PM:	Nancy McDonald

Package Sealed:	Yes	No	Samples Sealed:	Yes	No
Received on ice:	Yes	No	Samples Intact:	Yes	No
Temperature C of Cooler:					
Within Hold Time:					
Preserv. Indicated:					
pH Check OK:					
Res CL2 Check OK:					
Sample Labels and CGC Agree:					

Date Required	21 Days	Retain #																
Hard Copy	14 Days	#1 Cont.																
Fax/Email		Volume																
		Pressure																

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Additional Analyses / Remarks
13		LNWss-042M-SS	11-01-04	0925	S	C		x	x	x				
14		LL8ss-007M-SS	11-01-04	1115	S	C			x	x				
15		WSAss-011M-SS	11-01-04	0920	S	C		x	x	x	x	x		
16		LNWss-039M-SS	11-01-04	1150	S	C		x	x	x	x	x		
17		LL8ss-009M-SS	11-01-04	1450	S	C			x	x				
18		LL8ss-005M-SS	11-01-04	1020	S	C		x	x	x	x	x		
19	x	LL8ss-010M-SS	11-01-04	1425	S	C			x	x				
20		LL8ss-008M-SS	11-01-04	1145	S	C			x	x				
21		LL8ss-014M-SS	11-01-04	1525	S	C			x	x				
22		LL8ss-017M-SS	10-29-04	1135	S	C			x	x				
23		LL8ss-010M-DUP	11-01-04	1425	S	C			x	x				
24		WSAss-013M-SS	29-Oct-04	0850	W	G			x	x				

Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:
<i>SESLH</i>	MKM Engineers	11/2/04	1630		STL North Canton (Courier)		
Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:
	STL North Canton (Courier)				Fed Ex		
Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:
	FedEx			<i>[Signature]</i>	SR	11/2/04	0910

Matrix Key  
W - Water  
S - Soil  
SL - Sludge  
SO - Solid

WW - Wastewater  
SE - Sediment  
L - Leachate  
M - Miscellaneous

DL - Drum Liquid  
DS - Drum Solid  
W - Wipe  
A - Air  
OL - Oil  
O - \_\_\_\_\_

Comments:	Date Received
	11/2/04
	Courier:
	Hand Delivered:
	Bill of Lading: <i>see attach</i>

STL Chicago is part of Severn Trent Laboratories, Inc.



STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

**Report To:**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5  
Ravenna, OH 44266**  
Phone: **330-368-2920**  
Fax: **330-368-2924**  
Email: **eric.ellis@mkmengineers.com**

**Bill To:**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5  
Ravenna, OH 44266**  
Phone: **330-368-2920**  
Fax: **330-368-2924**  
PO #:  
Quote #:

Lab Lot # **231611**

Sampler Name: **ERIC ELLIS**  
Sampler Signature: **[Signature]**  
Project Name: **Characterization of RVAAP 14 AOCs**  
Project Number: **04-02-0030**  
Project Location: **RVAAP - Ravenna, Ohio**  
Lab PM: **Nancy McDonald**

Package Sealed Yes No	Samples Sealed Yes No
Received on Job Yes No	Samples Intact Yes No
Temperature C of Cooler	
Within Hold Time Yes No	
Preserv. Indicated Yes No N/A	
pH Check OK Yes No N/A	
Res CL2 Check OK Yes No N/A	
Sample Labels and COC Agree Yes No COC not present	

Date Required		Reqs																	
Hard Copy	21 Days	#/COIL																	
Fax/Email	14 Days	Volumes																	
		Preserv																	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Additional Analyses / Remarks
25		LL8ss-005M-DUP	11-01-04	1020	S	C		x	x	x	x	x		
26		LL8ss-018M-SS	11-01-04	1350	S	C			x	x				
27		LNWsd-046M-SD	11-02-04	1053	S	C		x	x	x				
28		LL8sd-005M-SD	11-02-04	1155	S	C			x	x				
29		TRIP BLANK	LAB	LAB	W	G	x							

Relinquished by: <b>[Signature]</b>	Company: <b>MKM Engineers</b>	Date: <b>11/2/04</b>	Time: <b>1630</b>	Received By:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <b>[Signature]</b>	Company: <b>SR</b>	Date: <b>11/3/04</b>	Time: <b>0910</b>

**Matrix Key**  
W - Water  
S - Soil  
SL - Sludge  
SO - Solid  
WW - Wastewater  
SE - Sediment  
L - Leachate  
M - Miscellaneous  
DL - Drum Liquid  
DS - Drum Solid  
W - Wipe  
A - Air  
OL - Oil  
O - \_\_\_\_\_

Comments:

Date Received	<b>11/3/04</b>
Courier:	<b>FE</b>
Hand Delivered:	
Bill of Lading:	<b>see attached</b>

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number.: 231611 Location.: 57222 Check List Number.: 1 Description.:  
 Customer Job ID.....: Job Check List Date.: 11/03/2004 Date of the Report.: 11/17/2004  
 Project Number.: 20004694 Project Description.: USACE RVAAP 14 ADCS Project Manager.....: nsm  
 Customer.....: MKM Engineers, Inc. Contact.: Eric Ellis

Questions ?	(Y/N)	Comments
Chain-of-Custody Present?.....	Y	
Were samples dropped off at or picked up by STL?..	N	
Custody seal on shipping container?.....	Y	
...If "yes", custody seal intact?.....	Y	
Custody seals on sample containers?.....	N	
...If "yes", custody seal intact?.....		
Samples iced?.....	Y	
Temperature of cooler acceptable? (4 deg C +/- 2).	Y	4.1,3.7,3.5,4.0
Samples received intact (good condition)?.....	Y	
Volatile samples acceptable? (no headspace).....	Y	
Correct containers used?.....	Y	
Adequate sample volume provided?.....	Y	
Samples preserved correctly?.....	Y	
Samples received within holding-time?.....	Y	
Agreement between COC and sample labels?.....	Y	
Radioactivity at or below background levels?.....	Y	
A Sample Discrepancy Report (SDR) was needed?.....	N	
If samples were shipped was there an air bill #?..	Y	
Sample Custodian Signature/Date.....	Y	

**STL Sacramento**  
 880 Riverside Parkway  
 West Sacramento, CA 95605  
 (910) 373-5600  
 Fax: (916) 372-1059

**Report To:**

Contact: **Eric Ellis**  
 Company: **MKM Engineers, Inc.**  
 Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
 Phone: **330-358-2920**  
 Fax: **330-358-2924**  
 Email: **eric.ellis@mkmengineers.com**

**Bill To:**

Contact: **Eric Ellis**  
 Company: **MKM Engineers, Inc.**  
 Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
 Phone: **330-358-2920**  
 Fax: **330-358-2924**

**Lab Lot #**

Sampler Name: **ELLEIS**  
 Sampler Signature: **[Signature]**  
 Project Name: **Characterization of RVAAP 14 AOCs**  
 Project Number: **04-02-0030**  
 Project Location: **RVAAP - Ravenna, Ohio**  
 Lab PM: **Nancy McDonald**

Package Sealed Yes No	Samples Sealed Yes No
Received on Ice Yes No	Samples Intact Yes No
Temperature C of Cooler	
Within Hold Time Yes No	
Preserv. Indicated Yes No N/A	
pH Check OK Yes No N/A	
Res Cl2 Check OK Yes No N/A	
Sample Labels and COC Agree Yes No COC not present	

Date Required		Refrig #	
Hard Copy	21 Days	# / Cont.	
Fax/Email	14 Days	Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	Propellants (Nitrogandine/ Nitrocellulose)	Additional Analyses / Remarks									
		LNWsw-051-SW	11-02-04	0945	W	G	x										
		LNWsw-050-SW	11-02-04	1130	W	G	x										
		LNWss-039M-SS	11-01-04	1150	S	C	x										
		LL8ss-005M-DUP	11-01-04	1020	S	C	x										
		LL8ss-005M-SS	11-01-04	1020	S	C	x										
		WSAss-011M-SS	11-01-04	0920	S	C	x										
		LNWss-034M-SS	11-01-04	1415	S	C	x										

RECEIVED IN GOOD CONDITION UNDER COC  
 NOV 03 2004  
 INI: **WKK**

Relinquished by: **[Signature]** Company: **MKM Engineers** Date: **11/2/04** Time: **1630**  
 Relinquished by: Company: **STL North Canton (Courier)** Date: Time:  
 Relinquished by: Company: **FedEx** Date: Time:

Received By: Company: **STL North Canton (Courier)** Date: Time:  
 Received By: Company: **Fed Ex** Date: Time:  
 Received By: **[Signature]** Company: Date: **11/3/04** Time: **1150**

**Matrix Key**  
 W - Water WW - Wastewater DL - Drum Liquid A - Air  
 S - Soil SE - Sediment DS - Drum Solid OL - Oil  
 SL - Sludge L - Leachate W - Wipe O -  
 SO - Solid M - Miscellaneous

Comments:  
 Date Received  
 Courier:  
 Hand Delivered:  
 Bill of Lading:



STL

LOT RECEIPT CHECKLIST  
STL Sacramento

CLIENT MKM Engineers / STL Chicago PM PH LOG # 29469  
LOT# (QUANTIMS ID) G4K030251 QUOTE# 60957 LOCATION W21C

DATE RECEIVED 11/3/04 TIME RECEIVED 0920

Initials MM Date 11/3/04

DELIVERED BY  FEDEX  CA OVERNIGHT  CLIENT  
 AIRBORNE  GOLDENSTATE  DHL  
 UPS  BAX GLOBAL  GO-GETTERS  
 STL COURIER  COURIERS ON DEMAND  
 OTHER

CUSTODY SEAL STATUS  INTACT  BROKEN  N/A

CUSTODY SEAL #(S) 614177, 614187

SHIPPING CONTAINER(S)  STL  CLIENT  N/A

TEMPERATURE RECORD (IN °C) IR 1  3  OTHER

COC #(S) 2° C MM 11/3/04 N/A

TEMPERATURE BLANK 2° C

SAMPLE TEMPERATURE 2° C

COLLECTOR'S NAME:  Verified from COC.  Not on COC

PH MEASURED  YES  ANOMALY  N/A

LABELED BY.....

LABELS CHECKED BY.....

PEER REVIEW  N/A

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING WETCHEM  N/A

VOA-ENCORES  N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL  N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES  N/A

Clouseau  TEMPERATURE EXCEEDED (2 °C - 6 °C)\*1  N/A

WET ICE  BLUE ICE  GEL PACK  NO COOLING AGENTS USED  PM NOTIFIED

Notes:

\*1 Acceptable temperature range for State of Wisconsin samples is  $\leq 4^{\circ}\text{C}$ .

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

**Report To:**

**Bill To:**

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengineers.com	PO #:	

Lab Lot # **231657**

Sampler Name: \_\_\_\_\_  
 Sampler Signature: \_\_\_\_\_  
 Project Name: **Characterization of RVAAP 14 AOCs**  
 Project Number: **04-02-0030**  
 Project Location: **RVAAP - Ravenna, Ohio**  
 Lab PM: **Nancy McDonald**

Quote #: \_\_\_\_\_

Package Sealed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Sealed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Received in Ice <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Temperature C of Cooler <b>(3.5) (1.8) (2.7) (4.8) (3.4) (1.3)</b>	
Wipes Hold Time <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Precision Indicated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
pH Check OK <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Res. CL2 Check OK <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Sample Labels and COC Agree <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> COC not present	

Date Required		Refrig #	
Hard Copy	21 Days	# / Cont	
Fax/Email	14 Days	Volume	
		Preserv	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Additional Analyses / Remarks
1		LL8sw-017-SW	11-03-04	1320	W	G	x	x	x	x		x	x	
2		ASYss-026M-ER	11-03-04	1205	W	G			x	x				
3		LNWsw-049-SW	11-03-04	1435	W	G	x	x	x	x	x	x		
4		LNWsw-047-SW	11-03-04	1010	W	G	x	x	x	x	x	x		
5		LNWsw-048-SW	11-03-04	0910	W	G	x	x	x	x	x	x		
6		LL8sw-014-SW	11-02-04	1515	W	G	x	x	x	x	x	x	x	
7		LL8sw-015-SW	11-02-04	1455	W	G	x	x	x	x		x	x	Due to collection issue, VOC taken at 1340 (3 Nov)
8		LL8sd-004D-SD	11-02-04	1440	S	G	x							
9		ASYss-013D-SO	11-03-04	0900	S	G	x							
10		LNWsd-044D-SD	11-02-04	1570	S	G	x							
11		LL8sd-004M-SD	11-02-04	1430	S	C		x	x	x	x	x		
12		LNWsd-045M-SD	11-02-04	1415	S	C		x	x	x				

Relinquished by: <i>[Signature]</i>	Company: <b>MKM Engineers</b>	Date: <b>11/3/04</b>	Time: <b>1650</b>	Received By:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <i>[Signature]</i>	Company: <b>-SE</b>	Date: <b>11/4/04</b>	Time: <b>0910</b>

**Matrix Key**  
 W - Water      WW - Wastewater      DL - Drum Liquid      A - Air  
 S - Soil        SE - Sediment        DS - Drum Solid      OL - Oil  
 SL - Sludge    L - Leachate        W - Wipe              O - \_\_\_\_\_  
 SO - Solid      M - Miscellaneous

Comments: \_\_\_\_\_

Date Received: **11/4/04**  
 Courier: **FX**  
 Hand Delivered: \_\_\_\_\_  
 Bill of Lading: *[initials]*

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

**Report To:**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
Phone: **330-358-2920**  
Fax: **330-358-2924**  
Email: **eric.ellis@mkmengineers.com**

**Bill To:**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
Phone: **330-358-2920**  
Fax: **330-358-2924**  
PO #:

Lab Lot # **231657**

Sampler Name: **ERIC ELLIS**  
Sampler Signature: **[Signature]**  
Project Name: **Characterization of RVAAP 14 AOCs**  
Project Number: **04-02-0030**  
Project Location: **RVAAP - Ravenna, Ohio**  
Lab PM: **Nancy McDonald**

Package Sealed Yes No	Samples Sealed Yes No
Received on Ice Yes No	Samples Intact Yes No
Temperature C of Cooler	
Within Hold Time Yes No	
Preserv. Indicated Yes No N/A	
pH Check OK Yes No N/A	
Res CLZ Check OK Yes No N/A	
Sample Labels and CDC Agree Yes No CDC not present	

Date Required	21 Days	Reiq #	
Hard Copy	14 Days	# / Cont.	
Fax/Email		Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Additional Analyses / Remarks
13		LL8ss-012M-SS	11-02-04	0915	S	C			X	X				
14		LNWsd-045M-DUP	11-02-04	1415	S	C		X	X	X				
15		LL8ss-013M-SS	11-02-04	1015	S	C			X	X				
16		LL8ss-011M-SS	11-02-04	0930	S	C			X	X				
17		LNWsd-044M-SD	11-02-04	1500	S	C		X	X	X	X	X		
18		LL8ss-015M-SO	11-02-04	1110	S	C		X	X	X	X	X		
19		ASYss-032M-SO	11-02-04	0910	S	C			X	X				
20		LL8ss-013M-QA	11-02-04	1015	S	C			X	X				
21		LNWsd-043M-SD	11-03-04	1005	S	C		X	X	X				
22		TRIP BLANK	NA	NA	W	G	X							

Relinquished by: <b>[Signature]</b>	Company: <b>MKM Engineers</b>	Date: <b>11/05/04</b>	Time: <b>1630</b>	Received By:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <b>[Signature]</b>	Company: <b>[Signature]</b>	Date: <b>11/4/04</b>	Time: <b>0910</b>

**Matrix Key**  
W - Water  
S - Soil  
SL - Sludge  
SO - Solid  
WW - Wastewater  
SE - Sediment  
L - Leachate  
M - Miscellaneous  
DL - Drum Liquid  
DS - Drum Solid  
W - Wipe  
A Air  
OL - Oil  
O \_\_\_\_\_

Comments: **[Signature]**

Date Received	<b>11/4/04</b>
Courier:	<b>PK</b>
Hand Delivered:	
Bill of Lading:	<b>see attached</b>

Job Sample Receipt Checklist Report

V2

rpjsckl

Job Number.: 231657    Location.: 57222    Check List Number.: 1    Description.:  
 Customer Job ID.....:                      Job Check List Date.: 11/04/2004                      Date of the Report...: 11/19/2004  
 Project Number.: 20004694    Project Description.: USACE RVAAP 14 AOCS                      Project Manager.....: nsm  
 Customer.....: MKM Engineers, Inc.                      Contact.: Eric Ellis

Questions ?	(Y/N)	Comments
Chain-of-Custody Present?.....	Y	
Were samples dropped off at or picked up by STL?..	N	
Custody seal on shipping container?.....	Y	
...If "yes", custody seal intact?.....	Y	
Custody seals on sample containers?.....	N	
...If "yes", custody seal intact?.....		
Samples iced?.....	Y	
Temperature of cooler acceptable? (4 deg C +/- 2).	Y	3.8,2.8,2.7,4.8,3.4,3.3
Samples received intact (good condition)?.....	Y	
Volatile samples acceptable? (no headspace).....	Y	
Correct containers used?.....	Y	
Adequate sample volume provided?.....	Y	
Samples preserved correctly?.....	Y	
Samples received within holding-time?.....	Y	
Agreement between COC and sample labels?.....	Y	
Radioactivity at or below background levels?.....	Y	
A Sample Discrepancy Report (SDR) was needed?.....	N	
If samples were shipped was there an air bill #?..	Y	
Sample Custodian Signature/Date.....	Y	

**STL Sacramento**  
 880 Riverside Parkway  
 West Sacramento, CA 95605  
 (910) 373-5600  
 Fax: (916) 372-1059

**Report To:**

Contact: **Eric Ellis**  
 Company: **MKM Engineers, Inc.**  
 Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
 Phone: **330-358-2920**  
 Fax: **330-358-2924**  
 Email: **eric.ellis@mkmengineers.com**

**Bill To:**

Contact: **Eric Ellis**  
 Company: **MKM Engineers, Inc.**  
 Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
 Phone: **330-358-2920**  
 Fax: **330-358-2924**  
 PO #:  
 Quote #:

**Lab Lot #**

Package Sealed	Yes	No	Samples Sealed	Yes	No
Received on Ice	Yes	No	Samples Intact	Yes	No
Temperature C of Cooler					
Within Hold Time					
Preserv. Indicated					
pH Check OK					
Res CL2 Check OK					
Sample Labels and COC Agree					

Sampler Name: **ERIC ELLIS**  
 Sampler Signature: *[Signature]*  
 Project Name: **Characterization of RVAAP 14 AOCs**  
 Project Number: **04-02-0030**  
 Project Location: **RVAAP - Ravenna, Ohio**  
 Lab PM: **Nancy McDonald**

Date Required		Refrig #	
Hard Copy	21 Days	# / Cont.	
Fax/Email	14 Days	Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	Propellants (Nitroganidine/ Nitrocellulose)	Additional Analyses / Remarks
		LL8sw-014-SW	11-02-04	1515	W	G	x	
		LNWsw-047-SW	11-03-04	1010	W	G	x	
		LNWsw-049-SW	11-02-04	1435	W	G	x	
		LNWsw-048-SW	11-03-04	0910	W	G	x	
		LL8sd-004M-SD	11-02-04	1430	S	C	x	
		LNWsd-044-SD	11-02-04	1500	S	C	x	
		LL8ss-015M-SO	11-02-04	1110	S	C	x	

RECEIVED IN GOOD CONDITION  
 UNDER COC  
 NOV 04 2004  
 INT *[Signature]*

Relinquished by: <i>[Signature]</i>	Company: <b>MKM Engineers</b>	Date: <b>11/03/04</b>	Time: <b>1630</b>	Received By:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <i>[Signature]</i>	Company:	Date: <b>11/4/04</b>	Time: <b>1250</b>

**Matrix Key**  
 W - Water      WW - Wastewater      DL - Drum Liquid      A - Air  
 S - Soil        SE - Sediment        DS - Drum Solid      OL - Oil  
 SL - Sludge    L - Leachate        W - Wipe              O \_\_\_\_\_  
 SO - Solid      M - Miscellaneous

Comments: *[Signature]*  
 Date Received  
 Courier:  
 Hand Delivered:  
 Bill of Lading:





# STL

## LOT RECEIPT CHECKLIST STL Sacramento

CLIENT MKM Engineers Inc. PM: PH LOG # 29491  
 LOT# (QUANTIMS ID) G4K040343 QUOTE# 60857 LOCATION W12C

DATE RECEIVED <u>11/4/04</u>		TIME RECEIVED <u>930</u>		Initials	Date
DELIVERED BY	<input checked="" type="checkbox"/> FEDEX	<input type="checkbox"/> CA OVERNIGHT	<input type="checkbox"/> CLIENT	↓	↓
	<input type="checkbox"/> AIRBORNE	<input type="checkbox"/> GOLDENSTATE	<input type="checkbox"/> DHL		
	<input type="checkbox"/> UPS	<input type="checkbox"/> BAX GLOBAL	<input type="checkbox"/> GO-GETTERS		
	<input type="checkbox"/> STL COURIER	<input type="checkbox"/> COURIERS ON DEMAND			
	<input type="checkbox"/> OTHER				
CUSTODY SEAL STATUS	<input type="checkbox"/> INTACT	<input type="checkbox"/> BROKEN	<input checked="" type="checkbox"/> N/A		
CUSTODY SEAL #(S)	_____				
SHIPPING CONTAINER(S)	<input checked="" type="checkbox"/> STL	<input type="checkbox"/> CLIENT	<input type="checkbox"/> N/A		
TEMPERATURE RECORD (IN °C)	IR	1 <input type="checkbox"/> 3 <input checked="" type="checkbox"/>	<input type="checkbox"/> OTHER _____		
COC #(S)	<u>None</u>				
TEMPERATURE BLANK	<u>3°C</u>				
SAMPLE TEMPERATURE	<u>5°C</u>				
COLLECTOR'S NAME:	<input checked="" type="checkbox"/> Verified from COC	<input type="checkbox"/> Not on COC			
pH MEASURED	<input type="checkbox"/> YES	<input type="checkbox"/> ANOMALY	<input checked="" type="checkbox"/> N/A		
LABELED BY	_____				
LABELS CHECKED BY	_____				
PEER REVIEW	<input checked="" type="checkbox"/> NA				
SHORT HOLD TEST NOTIFICATION	SAMPLE RECEIVING				
	<input type="checkbox"/> METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL	<input checked="" type="checkbox"/> WETCHEM	<input checked="" type="checkbox"/> N/A		
	<input checked="" type="checkbox"/> COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES	<input type="checkbox"/> VOA-ENCORES	<input checked="" type="checkbox"/> N/A		
	<input type="checkbox"/> Clouseau	<input type="checkbox"/> TEMPERATURE EXCEEDED (2 °C - 6 °C) <sup>*1</sup>	<input checked="" type="checkbox"/> N/A		
	<input checked="" type="checkbox"/> WET ICE	<input type="checkbox"/> BLUE ICE	<input type="checkbox"/> GEL PACK		
	<input type="checkbox"/> NO COOLING AGENTS USED	<input type="checkbox"/> PM NOTIFIED			

Notes: \_\_\_\_\_

\*1 Acceptable temperature range for State of Wisconsin samples is ≤4°C.

STL Chicago  
2417 Bond St  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

**Report To:**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
Phone: **330-358-2920**  
Fax: **330-358-2924**  
Email: **eric.ellis@mkmengeers.com**

**Bill To:**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
Phone: **330-358-2920**  
Fax: **330-358-2924**  
PO #:

Lab Lot # **231715**

Sampler Name: **ERIC ELLIS**  
Sampler Signature: *[Signature]*  
Project Name: **Characterization of RVAAP 14 AOCs**  
Project Number: **04-02-0030**  
Project Location: **RVAAP - Ravenna, Ohio**  
Lab PM: **Nancy McDonald**

Package Sealed: Yes  No   
Samples Sealed: Yes  No   
Received on Ice: Yes  No   
Samples Intact: Yes  No   
Temperature C of Cooler: **(2.3) (5.0) (2.4)**  
Within Hold Time: Yes  No   
Preservative Indicated: Yes  No  N/A  
pH Check OK: Yes  No  N/A  
Res Cl2 Check OK: Yes  No  N/A  
Sample Labels and CDC Agree: Yes  No  CDC not present

Date Required		Relig #															
Hard Copy	21 Days	#/Cont															
Fax/Email	14 Days	VOLUME															
		Preserv															

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Additional Analyses / Remarks
1		F16sw-002-SW	11-03-04	1450	W	G	x	x	x	x	x	x		
2		F16sw-002-DUP	11-03-04	1450	W	G	x	x	x	x	x	x		
3		F16sw-001-SW	11-03-04	1415	W	G	x	x	x	x	x	x		
4		ASYss-027D-DUP	11-03-04	1405	S	G	x							
5		ASYss-027D-SO	11-03-04	1405	S	G	x							
6		ASYss-015D-SO	11-04-04	1025	S	G	x							
7		CBLss-005D-SO	11-04-04	1000	S	G	x							
8		F16ss-005D-SO	11-03-04	1555	S	G	x							
9		F16sd-002M-SD	11-03-04	1550	S	C			x	x				
10		F16sd-001M-DUP	11-03-04	1525	S	G			x	x				
11		F16sd-001M-SD	11-03-04	1525	S	C			x	x				
12		ASYss-013M-SO	11-03-04	0900	S	C			x	x				

Relinquished by: <i>[Signature]</i>	Company: <b>MKM Engineers</b>	Date: <b>11/4/04</b>	Time: <b>1630</b>	Received By:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <i>[Signature]</i>	Company: <b>STL</b>	Date: <b>11/5/04</b>	Time: <b>0930</b>

**Matrix Key**  
W - Water      WW - Wastewater      DL - Drum Liquid      A - Air  
S - Soil        SE - Sediment        DS - Drum Solid      OL - Oil  
SL - Sludge    L - Leachate         W - Wipe              O \_\_\_\_\_  
SO - Solid      M - Miscellaneous

STL Chicago is part of Severn Trent Laboratories, Inc.

Comments: *[Signature]*

Date Received: **11/5/04**  
Courier: **PK**  
Hand Delivered:  
Bill of Lading: **see attach**

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

**Report To:**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5**  
**Ravenna, OH 44265**  
Phone: **330-358-2920**  
Fax: **330-358-2924**  
Email: **eric.ellis@mkmengineers.com**

**Bill To:**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
Phone: **330-358-2920**  
Fax: **330-358-2924**  
PO #:

Lab Lot # **231715**

Sampler Name: **ERIC ELLIS**  
Sampler Signature: *[Signature]*  
Project Name: **Characterization of RVAAP 14 AOCs**  
Project Number: **04-02-0030**  
Project Location: **RVAAP - Ravenna, Ohio**  
Lab PM: **Nancy McDonald**

Package Sealed	Yes	No	Samples Sealed	Yes	No
Received on Ice	Yes	No	Samples Intact	Yes	No
Temperature C of Cooler					
Within Field Time					
Preserv. Indicated					
pH Check OK					
Res CL2 Check OK					
Sample Labels and CDC Agree					

Date Required	21 Days	Refr. #																	
Hard Copy	14 Days	#/Cont.																	
Fax/Email		Volume																	
		Preserv.																	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Pentachloro-phenol (PCP)	Additional Analyses / Remarks
13		F16ss-002M-SO	11-03-04	1450	S	C			X	X					
14		ASYss-011M-SO	11-03-04	1305	S	C		X	X	X				X	If not under SVOC, analyze for PCP as well
15		ASYss-020M-SO	11-03-04	1100	S	C			X	X					
16		F16ss-005M-SO	11-03-04	1550	S	C		X	X	X	X	X			
17		F16ss-003M-SO	11-03-04	1420	S	C			X	X					
18		ASYss-010M-SO	11-03-04	1345	S	C			X	X					
19		ASYss-018M-SO	11-03-04	1125	S	C			X	X					
20		ASYss-016M-SO	11-03-04	0940	S	C			X	X					
21		ASYss-034M-SO	11-03-04	1600	S	C			X	X					
22		F16ss-004M-SO	11-03-04	1345	S	C			X	X					
23		ASYss-028M-SO	11-03-04	1000	S	C			X	X					
24		TRIP BLANK	NA	NA	W	G	X								

Relinquished by: <i>[Signature]</i>	Company: <b>MKM Engineers</b>	Date: <b>11/2/04</b>	Time: <b>1630</b>	Received By: <i>[Signature]</i>	Company: <b>STL North Canton (Courier)</b>	Date: <b>11/5/04</b>	Time: <b>0930</b>
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <i>[Signature]</i>	Company: <b>STL</b>	Date:	Time:

**Matrix Key**  
W - Water  
S - Soil  
SL - Sludge  
SO - Solid  
WW - Wastewater  
SE - Sediment  
L - Leachate  
M - Miscellaneous  
DL - Drum Liquid  
DS - Drum Solid  
W - Wipe  
A - Air  
OL - Oil  
O - \_\_\_\_\_

STL Chicago is part of Severn Trent Laboratories, Inc.

Comments: *[Signature]*

Date Received: **11/5/04**  
Courier: **FE**  
Hand Delivered:  
Bill of Lading: *[Signature]*

rpjsckl	Job Sample Receipt Checklist Report	V2
Job Number.: 231715	Location.: 57222	Check List Number.: 1
Customer Job ID.....:	Job Check List Date.: 11/05/2004	Date of the Report...: 11/19/2004
Project Number.: 20004694	Project Description.: USACE RVAAP 14 AOCs	Project Manager.....: nsm
Customer.....: MKM Engineers, Inc.	Contact.: Eric Ellis	
Questions ?	(Y/N) Comments	
Chain-of-Custody Present?.....	Y	
Were samples dropped off at or picked up by STL?..	N	
Custody seal on shipping container?.....	Y	
...If "yes", custody seal intact?.....	Y	
Custody seals on sample containers?.....	N	
...If "yes", custody seal intact?.....		
Samples iced?.....	Y	
Temperature of cooler acceptable? (4 deg C +/- 2).	Y	2.3,5.8,2.4
Samples received intact (good condition)?.....	Y	
Volatile samples acceptable? (no headspace).....	Y	
Correct containers used?.....	Y	
Adequate sample volume provided?.....	Y	
Samples preserved correctly?.....	Y	
Samples received within holding-time?.....	Y	
Agreement between COC and sample labels?.....	Y	
Radioactivity at or below background levels?.....	Y	
A Sample Discrepancy Report (SDR) was needed?.....	N	
If samples were shipped was there an air bill #?..	Y	
Sample Custodian Signature/Date.....	Y	



STL Sacramento  
880 Riverside Parkway  
West Sacramento, CA 95605  
(910) 373-5600  
Fax: (916) 372-1059

Report To:

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengeers.com	PO #:	
		Quote #:	

Bill To:

Lab Lot #

Package Sealed	Yes	No	Samples Sealed	Yes	No
Received on Ice	Yes	No	Samples Intact	Yes	No
Temperature C of Cooler					
Within Hold Time					
Preserv. Indicated					
pH Check OK					
Res CL2 Check OK					
Sample Labels and COC Agree					

Sampler Name:	ERIC ELLIS
Sampler Signature:	<i>[Signature]</i>
Project Name:	Characterization of RVAAP 14 AOCs
Project Number:	04-02-0030
Project Location:	RVAAP - Ravenna, Ohio
Lab PM:	Nancy McDonald

Date Required	Refrg #	Hard Copy	# / Cont:	Fax/Email	Volume	Preserv.	Matrix	Comp/Grab	Propellants (Nitroguanidine/ Nitrocellulose)	Additional Analyses / Remarks
		21 Days		14 Days						
Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time						
		F16ss-005M-SO	11-03-04	1550	S	C			x	
		F16sw-001-SW	11-03-04	1415	W	G			x	
		F16sw-002-SW	11-03-04	1450	W	G			x	
		F16sw--002-DUP	11-03-04	1450	W	G			x	

RECEIVED IN GOOD CONDITION  
UNDER COC  
NOV 05 2004  
NI *[Signature]*

Relinquished by:	Company: MKM Engineers	Date: 11/5/04	Time: 1630	Received By:	Company: STL North Canton (Courier)	Date:	Time:
Relinquished by:	Company: STL North Canton (Courier)	Date:	Time:	Received By:	Company: Fed Ex	Date:	Time:
Relinquished by:	Company: FedEx	Date:	Time:	Received By:	Company:	Date: 11/5/04	Time: 1355

**Matrix Key**  
W - Water  
S - Soil  
SL - Sludge  
SO - Solid  
WW - Wastewater  
SE - Sediment  
L - Leachate  
M - Miscellaneous  
DL - Drum Liquid  
DS - Drum Solid  
W - Wipe  
A Air  
OL - Oil  
O \_\_\_\_\_

Comments:  
Date Received  
Courier:  
Hand Delivered:  
Bill of Lading:



# STL

## LOT RECEIPT CHECKLIST STL Sacramento

CLIENT MKM Engineers Inc/CRC PM RA LOG # 29522  
 LOT# (QUANTIMS ID) G4K050396 QUOTE# 60857 LOCATION WISB

DATE RECEIVED 11/5/04 TIME RECEIVED 9:15

- DELIVERED BY
- FEDEX
  - AIRBORNE
  - UPS
  - STL COURIER
  - OTHER
  - CA OVERNIGHT
  - GOLDENSTATE
  - BAX GLOBAL
  - COURIERS ON DEMAND
  - CLIENT
  - DHL
  - GO-GETTERS

CUSTODY SEAL STATUS  INTACT  BROKEN  N/A  
 CUSTODY SEAL #(S) 614012, 614047

SHIPPING CONTAINER(S)  STL  CLIENT  N/A  
 TEMPERATURE RECORD (IN °C) IR 1  3  OTHER

COC #(S) N/A  
 TEMPERATURE BLANK 2°C  
 SAMPLE TEMPERATURE 3°C

COLLECTOR'S NAME:  Verified from COC  Not on COC

pH MEASURED  YES  ANOMALY  N/A

LABELED BY.....  
 LABELS CHECKED BY.....  
 PEER REVIEW N/A

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING  
 WETCHEM  N/A  
 VOA-ENCORES  N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL  N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES  N/A

Clouseau  TEMPERATURE EXCEEDED (2 °C - 6 °C)<sup>\*1</sup>  N/A  
 WET ICE  BLUE ICE  GEL PACK  NO COOLING AGENTS USED  PM NOTIFIED

Initials	Date
<u>MKM</u>	<u>11/5/04</u>
<u>ae</u>	<u>11-5-04</u>

\*1 Acceptable temperature range for State of Wisconsin samples is  $\leq 4^{\circ}\text{C}$ .

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

**Report To:**

**Bill To:**

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 6 Ravenna, OH 44286	Address:	8451 State Route 5 Ravenna, OH 44265
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengeers.com	PO #:	

Lab Lot # **231757**

Packaging Sealed	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Samples Sealed	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Refrigerated on Ice	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Samples Intact	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Temperature of Cooler	52, 40, 24, 14.8		
Within Hold Time	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Preservatives Indicated	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
pH Check OK	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Rea CL2 Check OK	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Sample Labels and COC Agree	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> COC not present		

Sampler Name: **ERIC ELLIS**  
 Sampler Signature: *[Signature]*  
 Project Name: **Characterization of RVAAP 14 AOCs**  
 Project Number: **04-02-0030**  
 Project Location: **RVAAP - Ravenna, Ohio**  
 Lab PM: **Nancy McDonald**

Date Required	21 Days	Ref #	
Hard Copy	14 Days	#/ Conf	
Fax/Email		Volume	
		Preserv	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitrolycerin	Pest/PCBs	Nitrate	C+6	Additional Analyses / Remarks
1		B12sw-025-SW	11-05-04	0845	W	G	x	x	x	x	x	x			
2		B12sw-025-DUP	11-05-04	0845	W	G	x	x	x	x	x	x			
3	X	B12sw-025-MSMSD	11-05-04	0845	W	G	x	x	x	x	x	x			
4		B12sd-024D-SD	11-05-04	1000	SE	G	x								
5		ASYss-004D-SO	11-04-04	1420	S	G	x								
6		ASYss-005D-SO	11-04-04	1515	S	G	x								
7		ASYss-012D-SO	11-04-04	1415	S	G	x								
8		ASYss-012D-QA	11-04-04	1500	S	G	x								
9		L12mw-113-GW	11-05-04	0850	W	G	x	x	x	x	x	x	x		
10		B12sd-024M-SD	11-05-04	1020	SE	C		x	x	x	x	x			
11		ASYss-002M-SO	11-04-04	0945	S	C			x	x					
		ASYss-001M-SO	11-04-04	0805	S	C			x	x					

Relinquished by: <i>[Signature]</i>	Company: <b>MKM Engineers</b>	Date: <b>11/5/04</b>	Time: <b>1630</b>	Received By: <i>[Signature]</i>	Company: <b>STL North Canton (Courier)</b>	Date: _____	Time: _____
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date: _____	Time: _____	Received By:	Company: <b>Fed Ex</b>	Date: _____	Time: _____
Relinquished by:	Company: <b>FedEx</b>	Date: _____	Time: _____	Received By: <i>[Signature]</i>	Company: <i>[Signature]</i>	Date: <b>11-6-04</b>	Time: <b>1100</b>

**Matrix Key**  
 W - Water  
 S - Soil  
 SL - Sludge  
 SO - Solid  
 WW - Wastewater  
 SE - Sediment  
 L - Leachate  
 M - Miscellaneous  
 DL - Drum Liquid  
 DS - Drum Solid  
 W - Wipe  
 A - Air  
 OL - Oil  
 O - \_\_\_\_\_

Comments: \_\_\_\_\_

Date Received	11-6-04
Courier	FX
Hand Delivered:	
Bill of Lading:	

STL Chicago  
2417 Bond St.  
University Park, IL 60468  
708-534-5200  
Fax: 708-534-5211

**Report To:**

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengeers.com	PO #:	

**Bill To:**

Contact:	Eric Ellis
Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920
Fax:	330-358-2924
PO #:	
Quote #:	

Lab Lot # 231757

Sampler Name: ERIC ELLIS  
 Sampler Signature: [Signature]  
 Project Name: Characterization of RVAAP 14 AOCs  
 Project Number: 04-02-0030  
 Project Location: RVAAP - Ravenna, Ohio  
 Lab PM: Nancy McDonald

Package Sealed Yes No	Samples Sealed Yes No
Repacked on Ice Yes No	Samples Intact Yes No
Temperature C of Cooler	
Within Hold Time Yes No	
Preserv. Indicated Yes No N/A	
pH Check OK Yes No N/A	
Res CL2 Check OK Yes No N/A	
Sample Labels and QOC Agree Yes No DOC not present	

Date Required	21 Days	Rating #	
Hard Copy	14 Days	#/Cont	
Fax/Email		Volumes	
		Preserv	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Cr-6	Additional Analyses / Remarks
12		B12ss-015M-SO	11-04-04	1600	S	C		x	x	x	x	x			
13		CBLss-004M-SO	11-04-04	1040	S	C			x	x				x	
14		CBLss-006M-SO	11-04-04	1135	S	C			x	x				x	
15		B12sw-026-SW	11-05-04	1045	W	G	x	x	x	x	x	x			
16		ASYss-005M-SO	11-04-04	1505	S	C			x	x				x	
17		ASYss-006M-SO	11-04-04	1120	S	C			x	x					
18	x	ASYss-007M-SO	11-04-04	1320	S	C			x	x					MS/MSD also
19		B12ss-016M-SO	11-04-04	1535	S	C			x	x					
20		CBLss-003M-DUP	11-04-04	0910	S	C			x	x				x	
21		ASYss-004M-SO	11-04-04	1405	S	C		x	x	x	x	x			
22		F16ss-001M-SO	11-03-04	1320	S	C			x	x					
23		B12sd-023M-SO	11-05-04	1125	SE	C			x	x					

Relinquished by: <u>[Signature]</u>	Company: <b>MKM Engineers</b>	Date: <u>11/5/04</u>	Time: <u>1630</u>	Received By: <u>[Signature]</u>	Company: <b>STL North Canton (Courier)</b>	Date: _____	Time: _____
Relinquished by: _____	Company: <b>STL North Canton (Courier)</b>	Date: _____	Time: _____	Received By: <u>[Signature]</u>	Company: <b>Fed Ex</b>	Date: _____	Time: _____
Relinquished by: _____	Company: <b>FedEx</b>	Date: _____	Time: _____	Received By: <u>[Signature]</u>	Company: <u>SR</u>	Date: <u>11-6-04</u>	Time: <u>1100</u>

**Matrix Key**  
 W - Water  
 S - Soil  
 SL - Sludge  
 SO - Solid  
 WW - Wastewater  
 SE - Sediment  
 L - Leachate  
 M - Miscellaneous  
 DL - Drum Liquid  
 DS - Drum Solid  
 W - Wipe  
 A Air  
 OL - Oil  
 O \_\_\_\_\_

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Date Received	<u>11-6-04</u>
Courier:	<u>EX</u>
Hand Delivered:	
Bill of Lading:	



rpjsckl	Job Sample Receipt Checklist Report		V2
Job Number.: 231757 Customer Job ID.....: Project Number.: 20004694 Customer.....: MKM Engineers, Inc.	Location.: 57222 Project Description.: USACE RVAAP 14 AOCs Contact.: Eric Ellis	Check List Number.: 1 Job Check List Date.: 11/06/2004 Description.: Date of the Report...: 11/22/2004	Project Manager.....: nsm
Questions ?	(Y/N) Comments		
Chain-of-Custody Present?..... Y Were samples dropped off at or picked up by STL?.. N Custody seal on shipping container?..... Y ...If "yes", custody seal intact?..... Y Custody seals on sample containers?..... N ...If "yes", custody seal intact?..... Samples iced?..... Y Temperature of cooler acceptable? (4 deg C +/- 2). Y Samples received intact (good condition)?..... Y Volatile samples acceptable? (no headspace)..... Y Correct containers used?..... Y Adequate sample volume provided?..... Y Samples preserved correctly?..... Y Samples received within holding-time?..... Y Agreement between COC and sample labels?..... Y Radioactivity at or below background levels?..... Y A Sample Discrepancy Report (SDR) was needed?..... N If samples were shipped was there an air bill #?.. Y Sample Custodian Signature/Date..... Y	5.2,4.0,2.4,4.1,4.2,4.8		

STL Chicago  
2417 Bond St.  
University Park, IL 60468  
708-534-5200  
Fax: 708-534-5211

**Report To:**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
Phone: **330-358-2920**  
Fax: **330-358-2924**  
Email: **eric.ellis@mkmengeers.com**

**Bill To:**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
Phone: **330-358-2920**  
Fax: **330-358-2924**  
PO #:  
Quote #:

Lab Lot # **231758**

Sampler Name: **ERIC ELLIS**  
Sampler Signature: *[Signature]*  
Project Name: **Characterization of RVAAP 14 AOCs**  
Project Number: **04-02-0030**  
Project Location: **RVAAP - Ravenna, Ohio**  
Lab PM: **Nancy McDonald**

Package Sealed Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Samples Sealed Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Refrigerated on Ice Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Samples Intact Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Temperature C of Cooler <b>5.2, 2.7, 4.0</b>	
Within Hold Time Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Preserv. Indicated Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> <b>N/A</b>	
pH Check OK Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> <b>N/A</b>	
Res Cl2 Check OK Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> <b>N/A</b>	
Sample Labels and COC Agree Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> <b>COC not present</b>	

Date Required		Beiq #																		
Hard Copy	21 Days	X / Cont																		
Fax/Email	14 Days	Volume																		
		Preserv																		

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycan	Pesticides	Nitrate	Cr6	Additional Analyses / Remarks
1		B12sd-023M-DUP	11-05-04	1125	SE	C			x	x					
2	x	CBLss-003M-SO	11-04-04	0910	S	C			x	x				x	
3		ASYss-014M-SO	11-04-04	1130	S	C			x	x					
4		CBLss-005M-SO	11-04-04	1005	S	C		x	x	x	x	x			
5		ASYss-007M-DUP	11-04-04	1320	S	C			x	x					
6		ASYss-008M-SO	11-04-04	0910	S	C			x	x					
7		CBLss-001M-SO	11-04-04	1350	S	C			x	x				x	
8		CBLss-002M-SO	11-04-04	1425	S	C			x	x				x	
9		B12ss-015D-SO	11-04-04	1545	S	G	x								
10		ASYss-009M-SO	11-04-04	0940	S	C			x	x					
11		ASYss-033M-SO	11-03-04	1520	S	C			x	x					
12		ASYss-021M-DUP	11-03-04	1135	S	C			x	x					

Relinquished by: *[Signature]* Company: **MKM Engineers** Date: **11/5/04** Time: **1630**

Relinquished by: Company: **STL North Canton (Courier)** Date: Time:

Relinquished by: Company: **FedEx** Date: Time:

Received By: Company: **STL North Canton (Courier)** Date: Time:

Received By: Company: **Fed Ex** Date: Time:

Received By: *[Signature]* Company: **STL** Date: **11-6-04** Time: **1100**

**Matrix Key**  
W - Water  
S - Soil  
SL - Sludge  
SO - Solid  
WW - Wastewater  
SE - Sediment  
L - Leachate  
M - Miscellaneous  
DL - Drum Liquid  
DS - Drum Solid  
W - Wipe  
A Air  
OL - Oil  
O \_\_\_\_\_

Comments: *[Signature]*

Date Received: **11-6-04**  
Courier: **FX**  
Hand Delivered: **FX**  
Bill of Lading:

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STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

**Report To:**

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-356-2920	Phone:	330-356-2920
Fax:	330-356-2924	Fax:	330-356-2924
Email:	eric.ellis@mkmengeers.com	PO #:	

Lab Lot # **231758**

Sampler Name: **ERIC ELLIS**  
 Sampler Signature: *[Signature]*  
 Project Name: **Characterization of RVAAP 14 AOCs**  
 Project Number: **04-02-0030**  
 Project Location: **RVAAP - Ravenna, Ohio**  
 Lab PM: **Nancy McDonald**

Quote #:

Package Sealed	Yes	No	Samples Sealed	Yes	No
Received on Ice	Yes	No	Samples Intact	Yes	No
Temperature C of Cooler					
Within Hold Time					
Preserv. Indicated					
pH Check OK					
Res CL2 Check OK					
Sample Labels and COC Agree					

Date Required	21 Days	Reliq #																	
Hard Copy	14 Days	#/Com																	
Fax/Email		Volumes																	
		Preserv																	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Peat/PCBs	Nitrate	Cr-6	Additional Analyses / Remarks
13		ASYss-027M-SO	11-03-04	1400	S	C		x	x	x	x	x			
14		ASYss-027M-DUP	11-03-04	1400	S	C		x	x	x	x	x			
15		ASYss-026M-SO	11-03-04	1610	S	C			x	x					
16		F16ss-007M-SO	11-03-04	1300	S	C			x	x					
17		ASYss-021M-SO	11-03-04	1135	S	C			x	x					
18		ASYss-017M-DUP	11-03-04	1015	S	C			x	x					
19		ASYss-017M-SO	11-03-04	1015	S	C			x	x					
20		TRIP BLANK	LAB	LAB	W	G	x								

Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:
<i>[Signature]</i>	<b>MKM Engineers</b>	11/5/04	1630		<b>STL North Canton (Courier)</b>		
Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:
	<b>STL North Canton (Courier)</b>				<b>Fed Ex</b>		
Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:
	<b>FedEx</b>			<i>[Signature]</i>		11-6-04	1100

**Matrix Key**  
 W - Water  
 S - Soil  
 SL - Sludge  
 SO - Solid  
 WW - Wastewater  
 SE - Sediment  
 L - Leachate  
 M - Miscellaneous  
 DL - Drum Liquid  
 DS - Drum Solid  
 W - Wipe  
 A - Air  
 OL - Oil  
 O - \_\_\_\_\_

Date Received	11-6-04
Courier:	FX
Hand Delivered:	
Bill of Lading:	

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rpjsckl	Job Sample Receipt Checklist Report	V2
Job Number.: 231758	Location.: 57222	Check List Number.: 1
Customer Job ID.....:	Job Check List Date.: 11/06/2004	Description.: Date of the Report...: 11/19/2004
Project Number.: 20004694	Project Description.: USACE RVAAP 14 ADCS	Project Manager.....: nam
Customer.....: MKM Engineers, Inc.	Contact.: Eric Ellis	
Questions ?	(Y/N)	Comments
Chain-of-Custody Present?.....	Y	
Were samples dropped off at or picked up by STL?..	N	
Custody seal on shipping container?.....	Y	
...If "yes", custody seal intact?.....	Y	
Custody seals on sample containers?.....	N	
...If "yes", custody seal intact?.....		
Samples iced?.....	Y	
Temperature of cooler acceptable? (4 deg C +/- 2). Y		4.0,5.2,2.4
Samples received intact (good condition)?.....	Y	
Volatile samples acceptable? (no headspace).....	Y	
Correct containers used?.....	Y	
Adequate sample volume provided?.....	Y	
Samples preserved correctly?.....	Y	
Samples received within holding-time?.....	Y	
Agreement between CDC and sample labels?.....	Y	
Radioactivity at or below background levels?.....	Y	
A Sample Discrepancy Report (SDR) was needed?.....	N	
If samples were shipped was there an air bill #?..	Y	
Sample Custodian Signature/Date.....	Y	



**STL Sacramento**  
 880 Riverside Parkway  
 West Sacramento, CA 95605  
 (916) 373-5600  
 Fax: (916) 372-1059

**Report To:**

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengeers.com	PO #:	

**Bill To:**

**Lab Lot #**

Sampler Name:	ERIC ELLIS
Sampler Signature:	<i>[Signature]</i>
Project Name:	Characterization of RVAAP 14 AOCs
Project Number:	04-02-0030
Project Location:	RVAAP - Ravenna, Ohio
Lab PM:	Nancy McDonald

Package Sealed Yes No	Samples Sealed Yes No
Received on Ice Yes No	Samples Intact Yes No
Temperature C of Cooler	
Within Hold Time Yes No	
Preserv. Indicated Yes No N/A	
pH Check OK Yes No N/A	
Res CL2 Check OK Yes No N/A	
Sample Labels and COC Agree Yes No COC not present	

Date Required		Refrig #	
Hard Copy	21 Days	# / Cont.	
Fax/Email	14 Days	Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	Propellants (Nitroguanidine/Nitrocellulose)	Additional Analyses / Remarks									
		B12sw-025-SW	11-05-04	0845	W	G	x										
		B12sw-025-DUP	11-05-04	0845	W	G	x										
	X	B12sw-025-MS/MSD	11-05-04	0845	W	G	x	RECEIVED IN GOOD CONDITION UNDER COC									
		L12mw-113-GW	11-05-04	0850	W	G	x										
		B12ss-015M-SO	11-04-04	1600	S	C	x	NOV 06 2004									
		B12sd-024M-SD	11-05-04	1020	SE	C	x										
		B12sw-026-SW	11-05-04	1045	W	G	x	INI <i>[Signature]</i>									
		ASYss-004M-SO	11-04-04	1405	S	C	x										
		ASYss-027M-SO	11-03-04	1400	S	C	x										
		ASYss-027M-DUP	11-03-04	1400	S	C	x										
		CBLss-005M-SO	11-04-04	1005	S	C	x										

Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:
<i>[Signature]</i>	MKM Engineers	11/5/04	1630		STL North Canton (Courier)		
Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:
	STL North Canton (Courier)				Fed Ex		
Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:
	FedEx			<i>[Signature]</i>	STL-SAC	11-6-04	1200

**Matrix Key**  
 W - Water      WW - Wastewater      DL - Drum Liquid      A - Air  
 S - Soil        SE - Sediment        DS - Drum Solid      OL - Oil  
 SL - Sludge    L - Leachate        W - Wipe              O - \_\_\_\_\_  
 SO - Solid     M - Miscellaneous

Comments:	Date Received
	Courier:
	Hand Delivered:
	Bill of Lading:

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*\* labeled 11-4-04 in a case*

CLIENT STL-Chicago PM RB LOG # \_\_\_\_\_  
LOT# (QUANTIMS ID) G4K060194 QUOTE# 60857 LOCATION W25C

DATE RECEIVED 11-6-04 TIME RECEIVED 8:58

Initials OR Date 11-6-04

DELIVERED BY  FEDEX  CA OVERNIGHT  CLIENT  
 AIRBORNE  GOLDENSTATE  DHL  
 UPS  BAX GLOBAL  GO-GETTERS  
 STL COURIER  COURIERS ON DEMAND  
 OTHER

CUSTODY SEAL STATUS  INTACT  BROKEN  N/A  
CUSTODY SEAL #(S) 613897 614027

SHIPPING CONTAINER(S)  STL  CLIENT  N/A  
TEMPERATURE RECORD (IN °C) IR 1  3  OTHER \_\_\_\_\_

COC #(S) \_\_\_\_\_ MLA  
TEMPERATURE BLANK \_\_\_\_\_ 2°  
SAMPLE TEMPERATURE \_\_\_\_\_ 3°

COLLECTOR'S NAME:  Verified from COC  Not on COC

pH MEASURED  YES  ANOMALY  N/A

LABELED BY.....

LABELS CHECKED BY.....

PEER REVIEW \_\_\_\_\_  NA

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING

WETCHEM  N/A

VOA-ENCORES  N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL  N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES  N/A

Clouseau  TEMPERATURE EXCEEDED (2 °C - 6 °C)<sup>1</sup>  N/A

WET ICE  BLUE ICE  GEL PACK  NO COOLING AGENTS USED  PM NOTIFIED

Notes: #1 - MS/SD bottles labeled 11-04-04, COC lists 11-05-04.

<sup>1</sup> Acceptable temperature range for State of Wisconsin samples is ≤ 4°C.

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

**Report To:**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5  
Ravenna, OH 44265**  
Phone: **330-358-2920**  
Fax: **330-358-2924**  
Email: **eric.ellis@mkmengineers.com**

**Bill To:**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5  
Ravenna, OH 44266**  
Phone: **330-358-2920**  
Fax: **330-358-2924**  
PO #:  
Quote #:

Lab Lot # **231793**

26

Sampler Name: **ERIC ELLIS**  
Sampler Signature: *[Signature]*  
Project Name: **Characterization of RVAAP 14 AOCs**  
Project Number: **04-02-0030**  
Project Location: **RVAAP - Ravenna, Ohio**  
Lab PM: **Nancy McDonald**

Package Sealed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Sealed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Received on Ice <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Temperature C of Cooler <b>(2.2) (2.7) (2.4) (3.0)</b>	
Wipe Hold Time <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Preserv. Indicated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
pH Check OK <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Res CL2 Check OK <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Sample Labels and COC Agree <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> COC not present	

Date Required		Refr #	
Hard Copy	21 Days	# / Cont.	
Fax/Email	14 Days	Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Cr+6	Additional Analyses / Remarks
1		LL8sd-006M-ER	11-08-04	1435	W	G			x	x					
2		ATAss-002M-ER	11-08-04	1035	W	G			x	x					
3	x	B12ss-013M-SO	11-05-04	0840	S	C			x	x					
4		B12ss-013M-DUP	11-05-04	0840	S	C			x	x					
5		B12ss-018M-SO	11-05-04	0940	S	C			x	x					
6		B12ss-017M-SO	11-05-04	1025	S	C			x	x					
7		ASYss-015M-SO	11-04-04	1025	S	C		x	x	x	x				
8		ASYss-012M-QA	11-04-04	1500	S	C			x	x				x	
9		B12ss-014M-SO	11-05-04	0910	S	C			x	x					
10		ASYss-012M-SO	11-04-04	1415	S	C			x	x				x	
11		ASYss-003M-SO	11-04-04	1040	S	C			x	x					
12	x	LL8sd-002M-SD	11-08-04	1100	SE	C			x	x					

Relinquished by: <i>[Signature]</i>	Company: <b>MKM Engineers</b>	Date: <b>11/8/04</b>	Time: <b>1630</b>	Received By: <b>STL North Canton (Courier)</b>	Company: <b>STL North Canton (Courier)</b>	Date: <b>11/9/04</b>	Time: <b>off</b>
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <i>[Signature]</i>	Company: <b>STL</b>	Date: <b>11/9/04</b>	Time: <b>off</b>

**Matrix Key**  
W - Water  
S - Soil  
SL - Sludge  
SO - Solid  
WW - Wastewater  
SE - Sediment  
L - Leachate  
M - Miscellaneous  
DL - Drum Liquid  
DS - Drum Solid  
W - Wipe  
A - Air  
OL - Oil  
O - \_\_\_\_\_

Comments: \_\_\_\_\_  
Date Received: **11/9/04**  
Courier: **EX**  
Hand Delivered:  
Bill of Lading: *see attached*



STL

231793

120

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

Report To:

Bill To:

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengeers.com	PO #:	

Package Sealed	Yes	No	Samples Sealed	Yes	No
Received on Ice	Yes	No	Samples Intact	Yes	No
Temperature C of Cooler					
Within Hold Time					
Preserv. Indicated					
pH Check OK					
Res Cl2 Check OK					
Sample Labels and COC Agree					

Sampler Name:	ERIC ELLIS
Sampler Signature:	<i>[Signature]</i>
Project Name:	Characterization of RVAAP 14 AOCs
Project Number:	04-02-0030
Project Location:	RVAAP - Ravenna, Ohio
Lab PM:	Nancy McDonald

Date Required	21 Days	Refrig #	
Hard Copy	14 Days	#/Cont.	
Fax/Email		Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Cr+6	Additional Analyses / Remarks
13		LL8sd-002M-DUP	11-08-04	1100	SE	C			x	x					
14		LL8sw-013-SW	11-08-04	1000	W	G	x	x	x	x		x	x		
15		LL8sw-012-SW	11-08-04	0915	W	G	x	x	x	x		x	x		
16		LL8sw-013-DUP	11-08-04	1000	W	G	x	x	x	x		x	x		
17		ATAss-003D-SO	11-08-04	0920	S	C	x								
18		TRIP BLANK	Lab	Lab	W	G	x								
19		CBLsw-003-SW	11-08-04	1430	W	G	x	x	x	x	x	x		x	Cr+6 - Watch hold time!

Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:
<i>[Signature]</i>	MKM Engineers	11/8/04	1630		STL North Canton (Courier)		
Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:
	STL North Canton (Courier)				Fed Ex		
Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:
	FedEx			<i>[Signature]</i>	SN	11/9/04	0945

Matrix Key  
W - Water  
S - Soil  
SL - Sludge  
SC - Solid

WW - Wastewater  
SE - Sediment  
L - Leachate  
M - Miscellaneous

DL - Drum Liquid  
DS - Drum Solid  
W - Wipe  
A Air  
OL - Oil  
O \_\_\_\_\_

Comments:	Date Received
	11/9/04
	Courier: <i>[Signature]</i>
	Hand Delivered: <i>[Signature]</i>
	Bill of Lading: <i>see attach</i>



Job Number.: 231793 Location.: 57222 Check List Number.: 1 Description.:  
 Customer Job ID.....: Job Check List Date.: 11/09/2004 Date of the Report.: 11/22/2004  
 Project Number.: 20004694 Project Description.: USACE RVAAP 14 AOCs Project Manager.....: nsm  
 Customer.....: MKM Engineers, Inc. Contact.: Eric Ellis

Questions ?	(Y/N)	Comments
Chain-of-Custody Present?.....	Y	
Were samples dropped off at or picked up by STL?..	N	
Custody seal on shipping container?.....	Y	
...If "yes", custody seal intact?.....	Y	
Custody seals on sample containers?.....	N	
...If "yes", custody seal intact?.....		
Samples iced?.....	Y	
Temperature of cooler acceptable? (4 deg C +/- 2). Y		3.2,2.7,2.4,3.0
Samples received intact (good condition)?.....	Y	
Volatile samples acceptable? (no headspace).....	Y	
Correct containers used?.....	Y	
Adequate sample volume provided?.....	Y	
Samples preserved correctly?.....	Y	
Samples received within holding-time?.....	Y	
Agreement between COC and sample labels?.....	Y	
Radioactivity at or below background levels?.....	Y	
A Sample Discrepancy Report (SDR) was needed?.....	N	
If samples were shipped was there an air bill #?..	Y	
Sample Custodian Signature/Date.....	Y	

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

**Report To:**

**Bill To:**

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8461 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmenengineers.com	PO #:	

Lab Lot # **231832**

Package Sealed	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Samples Sealed	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Recoiled on Ice	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Samples Intact	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Temperature C of Cooler	(3.1) (2.7) (3.3) (4.2)		
Within Hold Time	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Preserv. Indicated	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
pH Check OK	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Res DL2 Check OK	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Sample Labels and COC Agree	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> COC not present		

Sampler Name:	<b>ERIC ELLIS</b>
Sampler Signature:	<i>[Signature]</i>
Project Name:	<b>Characterization of RVAAP 14 AOCs</b>
Project Number:	<b>04-02-0030</b>
Project Location:	<b>RVAAP - Ravenna, Ohio</b>
Lab PM:	<b>Nancy McDonald</b>

Date Required		Refr #	
Hard Copy	21 Days	# / Cont.	
Fax/Email	14 Days	Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Cr+6	Additional Analyses / Remarks
1		LL7ss-023M-ER	11-09-04	1420	W	G	x	x	x	x	x	x	x		Cr+6 - Watch hold time!
2		CBLsw-002-DUP	11-09-04	1250	W	G	x	x	x	x	x	x			Cr+6 - Watch hold time!
3		CBLsw-002-SW	11-09-04	1250	W	G	x	x	x	x	x	x			Cr+6 - Watch hold time!
4		CBLsw-001-SW	11-09-04	1440	W	G	x	x	x	x	x	x			Cr+6 - Watch hold time!
5		ATAss-001M-DUP	11-08-04	1015	S	C			x	x					
6		ATAsb-001M-SO	11-08-04	1200	S	C			x	x					
7		LL7ss-002M-SO	11-08-04	1030	S	C			x	x			x		
8		LL8sd-001M-SD	11-08-04	1625	SE	C		x	x	x	x	x			
9		LL7ss-001M-SO	11-08-04	0950	S	C			x	x	x		x		
10		ATAss-003M-SO	11-08-04	0920	S	C		x	x	x	x	x			
11		LL8sd-006M-SD	11-08-04	1540	SE	C			x	x					
12		LL7ss-015M-SO	11-08-04	1640	S	C			x	x	x		x		

Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:
<i>[Signature]</i>	<b>MKM Engineers</b>	11/10/04	1650		<b>STL North Canton (Courier)</b>		
Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:
	<b>STL North Canton (Courier)</b>				<b>Fed Ex</b>		
Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:
	<b>FedEx</b>			<i>[Signature]</i>	<b>sn</b>	11/10/04	0945

**Matrix Key**  
 W - Water      WW - Wastewater      DL - Drum Liquid      A - Air  
 S - Soil        SE - Sediment        DS - Drum Solid      OL - Oil  
 SL - Sludge    L - Leachate        W - Wipe              O - \_\_\_\_\_  
 SO - Solid      M - Miscellaneous

Comments:	Date Received:
	11/10/04
	Courier: <i>[Signature]</i>
	Hand Delivered:
	Bill of Lading: <i>[Signature]</i>



STL

STL Chicago
2417 Bond St
University Park, IL 60466
708-534-5200
Fax: 708-534-5211

Report To: Eric Ellis, MKM Engineers, Inc., 8451 State Route 5, Ravenna, OH 44266
Bill To: Eric Ellis, MKM Engineers, Inc., 8451 State Route 5, Ravenna, OH 44266

Lab Lot # 231832

Sampler Name: ELLIS
Sampler Signature: [Signature]
Project Name: Characterization of RVAAP 14 AOCs
Project Number: 04-02-0030
Project Location: RVAAP - Ravenna, Ohio
Lab PM: Nancy McDonald

Package Sealed: Yes No
Samples Sealed: Yes No
Received on Ice: Yes No
Samples Intact: Yes No
Temperature C of Cooler
Within Hold Time: Yes No
Preserv. Indicated: Yes No N/A
pH Check OK: Yes No N/A
Res CL2 Check OK: Yes No N/A
Sample Labels and COC Agree: Yes No COC not present

Table with columns: Date Required, Refrig #, Hard Copy, Volume, Fax/Email, Preserv.

Main data table with columns: Laboratory ID, MSMSD, Client Sample ID, Sampling Date, Sampling Time, Matrix, Comp/Grab, VOC, SVOC, Explosives, TAL Metals, Nitrolycerin, Pest/PCBs, Nitrate, Cr+6, Additional Analyses / Remarks

Relinquished by: [Signature], Company: MKM Engineers, Date: 11/9/04, Time: 1:30
Received By: [Signature], Company: STL North Canton (Courier), Date: 11/10/04, Time: 8:45

Matrix Key
W - Water
S - Soil
SL - Sludge
SO - Solid
WW - Wastewater
SE - Sediment
L - Leachate
M - Miscellaneous
DL - Drum Liquid
DS - Drum Solid
W - Wipe
A - Air
OL - Oil
O -

Comments:
Date Received: 11/10/04
Courier: PK
Hand Delivered:
Bill of Lading: see attach

rpjsckl

Job Sample Receipt Checklist Report

V2

Job Number.: 231832	Location.: 57222	Check List Number.: 1	Description.:	Date of the Report...: 11/21/2004
Customer Job ID.....:		Job Check List Date.: 11/10/2004		Project Manager.....: nsm
Project Number.: 20004694	Project Description.: USACE RVAAP 14 AOCS			
Customer.....: MKM Engineers, Inc.		Contact.: Eric Ellis		

Questions ?	(Y/N)	Comments
Chain-of-Custody Present?.....	Y	
Were samples dropped off at or picked up by STL?..	N	
Custody seal on shipping container?.....	Y	
...If "yes", custody seal intact?.....	Y	
Custody seals on sample containers?.....	N	
...If "yes", custody seal intact?.....		
Samples iced?.....	Y	
Temperature of cooler acceptable? (4 deg C +/- 2). Y		3.1,2.7,3.3,4.2
Samples received intact (good condition)?.....	Y	
Volatile samples acceptable? (no headspace).....	Y	
Correct containers used?.....	Y	
Adequate sample volume provided?.....	Y	
Samples preserved correctly?.....	Y	
Samples received within holding-time?.....	Y	
Agreement between COC and sample labels?.....	Y	
Radioactivity at or below background levels?.....	Y	
A Sample Discrepancy Report (SDR) was needed?.....	N	
If samples were shipped was there an air bill #?..	Y	
Sample Custodian Signature/Date.....	Y	

**STL Chicago**  
 2417 Bond St.  
 University Park, IL 60466  
 708-534-5200  
 Fax: 708-534-5211

<b>Report To:</b>	Contact: Eric Ellis	<b>Bill To:</b>	Contact: Eric Ellis
	Company: MKM Engineers, Inc.		Company: MKM Engineers, Inc.
	Address: 8451 State Route 5		Address: 8451 State Route 5
	Ravenna, OH 44266		Ravenna, OH 44266
	Phone: 330-358-2920		Phone: 330-358-2920
	Fax: 330-358-2924		Fax: 330-358-2924
	Email: eric.ellis@mkmengineers.com		PO #:
			Quote #:

Lab Lot # 231833

Package Sealed	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Samples Sealed	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Received on Ice	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Samples Intact	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Temperature C of Cooler	(3.1) (2.7) (3.3) (4.2)		
Within Hold Time	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Preserv. Indicated	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
pH Check OK	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Res CL2 Check OK	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Sample Labels and COC Agree	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> COC not present		

Sampler Name: ERIC ELLIS  
 Sampler Signature: [Signature]  
 Project Name: Characterization of RVAAP 14 AOCs  
 Project Number: 04-02-0030  
 Project Location: RVAAP - Ravenna, Ohio  
 Lab PM: Nancy McDonald

Date Required		Refrg #	
Hard Copy	21 Days	# / Cont.	
Fax/Email	14 Days	Volume	
		Preserv	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Cr+6	Additional Analyses / Remarks
1		LL8sd-003M-SD	11-08-04	1415	SE	C			x	x					
2		ATAss-005M-SO	11-08-04	0900	S	C			x	x					
3		LL7ss-006D-SO	11-08-04	1415	S	G	x								
4		LL8sd-001D-SD	11-08-04	1625	SE	G	x								
5	x	LL7ss-013D-SO	11-09-04	1000	S	G	x								
6		LL7ss-013D-DUP	11-09-04	1000	S	G	x								
7		LL7ss-023D-SO	11-09-04	1550	S	G	x								
8		CBLsd-002D-SD	11-09-04	1400	SE	G	x								
9		CBLsd-002D-DUP	11-09-04	1400	SE	G	x								
10		TRIP BLANK	LAB	LAB	W	G	x								

Relinquished by: <u>[Signature]</u>	Company: <b>MKM Engineers</b>	Date: <u>11/9/09</u>	Time: <u>1:30</u>	Received By:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <u>[Signature]</u>	Company: <u>SN</u>	Date: <u>11/10/09</u>	Time: <u>09:35</u>

**Matrix Key**  
 W - Water DL - Drum Liquid A - Air  
 S - Soil SE - Sediment DS - Drum Solid OL - Oil  
 SL - Sludge L - Leachate W - Wipe O -  
 SO - Solid M - Miscellaneous

STL Chicago is part of Severn Trent Laboratories, Inc.

Comments:

Date Received: 11/10/09  
 Courier: FE  
 Hand Delivered:  
 Bill of Lading: see attach

rpjsckl		Job Sample Receipt Checklist Report		v2	
Job Number.: 231833	Location.: 57222	Check List Number.: 1	Description.:	Date of the Report.: 11/23/2004	
Customer Job ID.....:		Job Check List Date.: 11/10/2004		Project Manager.....: nsm	
Project Number.: 20004694	Project Description.: USACE RVAAP 14 AOCs	Contact.: Eric Ellis			
Customer.....: MKM Engineers, Inc.					
Questions ?		(Y/N) Comments			
Chain-of-Custody Present?.....	Y				
Were samples dropped off at or picked up by STL?..	N				
Custody seal on shipping container?.....	Y				
...If "yes", custody seal intact?.....	Y				
Custody seals on sample containers?.....	N				
...If "yes", custody seal intact?.....					
Samples iced?.....	Y				
Temperature of cooler acceptable? (4 deg C +/- 2). Y		3.1,2.7,3.3,4.2			
Samples received intact (good condition)?.....	Y				
Volatile samples acceptable? (no headspace).....	Y				
Correct containers used?.....	Y				
Adequate sample volume provided?.....	Y				
Samples preserved correctly?.....	Y				
Samples received within holding-time?.....	Y				
Agreement between COC and sample labels?.....	Y				
Radioactivity at or below background levels?.....	Y				
A Sample Discrepancy Report (SDR) was needed?.....	N				
If samples were shipped was there an air bill #?..	Y				
Sample Custodian Signature/Date.....	Y				

**STL Sacramento**  
 880 Riverside Parkway  
 West Sacramento, CA 95605  
 (910) 373-5600  
 Fax: (916) 372-1059

**Report To:**

Contact: **Eric Ellis**  
 Company: **MKM Engineers, Inc.**  
 Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
 Phone: **330-358-2920**  
 Fax: **330-358-2924**  
 Email: **eric.ellis@mkengineers.com**

**Bill To:**

Contact: **Eric Ellis**  
 Company: **MKM Engineers, Inc.**  
 Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
 Phone: **330-358-2920**  
 Fax: **330-358-2924**  
 PO #:

**Lab Lot #**

Package Sealed Yes No	Samples Sealed Yes No
Received on Ice Yes No	Samples Intact Yes No
Temperature C of Cooler	
Within Hold Time Yes No	
Preserv. Indicated Yes No N/A	
pH Check OK Yes No N/A	
Res Cl2 Check OK Yes No N/A	
Sample Labels and COC Agree Yes No COC not present	

Sampler Name: **Eric Ellis**  
 Sampler Signature: *[Signature]*  
 Project Name: **Characterization of RVAAP 14 AOCs**  
 Project Number: **04-02-0030**  
 Project Location: **RVAAP - Ravenna, Ohio**  
 Lab PM: **Nancy McDonald**

Date Required		Refr #	
Hard Copy	21 Days	# / Cont	
Fax/Email	14 Days	Volume	
		Preserv	

STL-Sacramento (916) 373-5600

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	Propellants (Nitroganidine/Nitrocellulose)	Additional Analyses / Remarks									
		LL7ss-015M-SO	11-08-04	1640	S	C	x										
		LL8sd-001M-SD	11-08-04	1625	SE	C	x										
		ATAss-003M-SO	11-08-04	0920	S	C	x										
		LL7ss-009M-SO	11-08-04	1620	S	C	x										
		LL7ss-005M-SO	11-08-04	1415	S	C	x										
		ASYss-015M-SO	11-04-04	1025	S	C	x										
		LL7ss-001M-SO	11-08-04	0950	S	C	x										
		LL7ss-007M-SO	11-08-04	1500	S	C	x										
		CBLsw-003-SW	11-09-04	1430	W	G	x										
		CBLsw-002-DUP	11-09-04	1250	W	G	x										
		CBLsw-002-SW	11-09-04	1250	W	G	x										
		CBLsw-001-SW	11-09-04	1440	W	G	x										

RECEIVED IN GOOD CONDITION UNDER COC  
 NOV 10 2004  
*[Signature]*

Relinquished by: <i>[Signature]</i>	Company: <b>MKM Engineers</b>	Date: <b>11/9/04</b>	Time: <b>1630</b>	Received By: <i>[Signature]</i>	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <i>[Signature]</i>	Company: <b>STL</b>	Date: <b>11-10-04</b>	Time: <b>1250</b>

**Matrix Key**  
 W - Water      WW - Wastewater      DL - Drum Liquid      A - Air  
 S - Soil        SE - Sediment        DS - Drum Solid      OL - Oil  
 SL - Sludge    L - Leachate        W - Wipe              O \_\_\_\_\_  
 SO - Solid     M - Miscellaneous

Comments:

Date Received
Courier:
Hand Delivered:
Bill of Lading:



**STL Sacramento**  
 880 Riverside Parkway  
 West Sacramento, CA 95605  
 (910) 373-5600  
 Fax: (916) 372-1059

**Report To:**

Contact:	Eric Ellis
Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920
Fax:	330-358-2924
Email:	eric.ellis@mkmengineers.com

**Bill To:**

Contact:	Eric Ellis
Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920
Fax:	330-358-2924
PO #:	
Quote #:	

**Lab Lot #**

Package Sealed Yes No	Samples Sealed Yes No
Received on Ice Yes No	Samples Intact Yes No
Temperature C of Cooler	
Within Hold Time Yes No	
Preserv. Indicated Yes No N/A	
pH Check OK Yes No N/A	
Res. CL2 Check OK Yes No N/A	
Sample Labels and COC Agree Yes No COC not present	

Sampler Name:	ERIC ELLIS
Sampler Signature:	<i>ERIC ELLIS</i>
Project Name:	Characterization of RVAAP 14 AOCs
Project Number:	04-02-0030
Project Location:	RVAAP - Ravenna, Ohio
Lab PM:	Nancy McDonald

Date Required		Refr #																		
Hard Copy	21 Days	# / Cont																		
Fax/Email	14 Days	Volume																		
		Preserv																		

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	Propellants (Nitroguanidine/Nitrocellulose)														Additional Analyses / Remarks
		LL7ss-003M-DUP	11-08-04	1100	S	C	x														ASTM Water
		LL7ss-003M-SO	11-08-04	1100	S	C	x														RECEIVED IN GOOD CONDITION UNDER COC
																					NOV 10 2004
																					INI: <i>CE</i>

Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:
<i>ERIC ELLIS</i>	MKM Engineers	11/2/04	1630				
Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:

**Matrix Key**  
 W - Water      WW - Wastewater      DL - Drum Liquid      A - Air  
 S - Soil      SE - Sediment      DS - Drum Solid      OL - Oil  
 SL - Sludge      L - Leachate      W - Wipe      O - \_\_\_\_\_  
 SO - Solid      M - Miscellaneous

Comments:	Date Received
	Courier:
	Hand Delivered:
	Bill of Lading:

STL Chicago is part of Severn Trent Laboratories, Inc.





# STL

## LOT RECEIPT CHECKLIST STL Sacramento

CLIENT HKM ENGINEERS / STC CHICAGO PM RU LOG # 29584

LOT# (QUANTIMS ID) G4K100349 QUOTE# 60857 LOCATION W4C

DATE RECEIVED 11-10-04 TIME RECEIVED 0920

Initials Ge Date 11-10-04

- DELIVERED BY
- FEDEX
  - AIRBORNE
  - UPS
  - STL COURIER
  - OTHER
  - CA OVERNIGHT
  - GOLDENSTATE
  - BAX GLOBAL
  - COURIERS ON DEMAND
  - CLIENT
  - DHL
  - GO-GETTERS

CUSTODY SEAL STATUS  INTACT  BROKEN  N/A

CUSTODY SEAL #(S) 612047, 612037

SHIPPING CONTAINER(S)  STL  CLIENT  N/A

TEMPERATURE RECORD (IN °C) IR 4  3   OTHER 6-11-1004

COC #(S) N/A

TEMPERATURE BLANK 5°C

SAMPLE TEMPERATURE 5°C

COLLECTOR'S NAME:  Verified from COC  Not on COC

pH MEASURED  YES  ANOMALY  N/A

LABELLED BY.....

LABELS CHECKED BY.....

PEER REVIEW  NA

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING

WETCHEM  N/A

VOA-ENCORES  N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL  N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES  N/A

Clouseau  TEMPERATURE EXCEEDED (2 °C - 6 °C)\*1  N/A

WET ICE  BLUE ICE  GEL PACK  NO COOLING AGENTS USED  PM NOTIFIED

Notes: WE REC'D 2-500A613 LABELED "LL755-D231-ER" THAT WERE NOT USED ON THE COC.

THE SAMPLE WAS ADDED TO THE END OF THE LOT AND NOT ASSIGNED ANY

TESTS.

\*1 Acceptable temperature range for State of Wisconsin samples is  $\leq 4^{\circ}\text{C}$ .

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

**Report To:**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
Phone: **330-358-2920**  
Fax: **330-358-2924**  
Email: **eric.ellis@mkmengeers.com**

**Bill To:**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
Phone: **330-358-2920**  
Fax: **330-358-2924**  
PO #:  
Quote #:

Lab Lot # **231877**

Sampler Name: **BUL BULS**  
Sampler Signature: *[Signature]*  
Project Name: **Characterization of RVAAP 14 AOCs**  
Project Number: **04-02-0030**  
Project Location: **RVAAP - Ravenna, Ohio**  
Lab PM: **Nancy McDonald**

Package Sealed: Yes  No   
Samples Sealed: Yes  No   
Received on Ice: Yes  No   
Samples Intact: Yes  No   
Temperature C of Cooler: **(2.8) (3.1)**  
Within Hold Time: Yes  No   
Preserv. Indicated: Yes  No  N/A  
pH Check OK: Yes  No  N/A  
Res CLZ Check OK: Yes  No  N/A  
Sample Labels and COC Agree: Yes  No  COC not present

Date Required		Refrig #																		
Hard Copy	21 Days	# / Cont																		
Fax/Email	14 Days	Volume																		
		Preserv																		

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Cr+6	Additional Analyses / Remarks
1		LL7ss-032D-SO	11-10-04	0855	S	G	x								
2		TRIP BLANK	LAB	LAB	W	G	x								
3		LL7ss-031M-SO	11-09-04	1055	S	C			x	x			x		
4		LL7ss-016M-SO	11-09-04	1110	S	C			x	x			x		
5		LL7ss-011M-SO	11-09-04	1430	S	C			x	x	x		x		
6		CBLsd-002M-SD	11-09-04	1400	SE	C		x	x	x	x	x	x	x	
7		LL7ss-010M-SO	11-09-04	1500	S	C			x	x			x		
8	x	LL7ss-013M-SO	11-09-04	1000	S	C		x	x	x	x	x	x	x	
9		LL7ss-013M-DUP	11-09-04	1000	S	C		x	x	x	x	x	x	x	
10		LL7ss-006M-SO	11-09-04	1310	S	C			x	x			x		
11		LL7ss-012M-SO	11-09-04	1350	S	C			x	x			x		
12		LNWsb-058-SO	11-09-04	1530	S	G		x	x	x					

Relinquished by: <i>[Signature]</i>	Company: <b>MKM Engineers</b>	Date: <b>11/10/04</b>	Time: <b>1630</b>	Received By:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <i>[Signature]</i>	Company: <b>STL</b>	Date: <b>11/10/04</b>	Time: <b>1000</b>

**Matrix Key**

W - Wastewater	WW - Wastewater	DL - Drum Liquid	A - Air
S - Soil	SE - Sediment	DS - Drum Solid	OL - Oil
SL - Sludge	L - Leachate	W - Wipe	O - _____
SO - Solid	M - Miscellaneous		

Comments: *[Signature]*

Date Received: **11/10/04**

Courier: **FX**

Hand Delivered:

Bill of Lading: **see attach**

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

Report To:

Bill To:

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 6 Ravenna, OH 44266	Address:	8451 State Route 6 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmenr.com	PO #:	

Lab Lot # 231877

Sampler Name: **FILE 415**

Sampler Signature: *[Signature]*

Project Name: **Characterization of RVAAP 14 AOCs**

Project Number: **04-02-0030**

Project Location: **RVAAP - Ravenna, Ohio**

Lab PM: **Nancy McDonald**

Package Sealed	Yes	No	Samples Sealed	Yes	No
Received on Ice	Yes	No	Samples Intact	Yes	No
Temperature C of Cooler					
Within Hold Time					
Preserv. Indicated					
pH Check OK					
Res. GL2 Check OK					
Sample Labels and COC Agree					

Date Required		Refrig #	
Hard Copy	21 Days	# / Cont	
Fax/Email	14 Days	Volume	
		Proben	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Cr-6	Additional Analyses / Remarks
13		LL7sd-028M-SD	11-09-04	0930	SE	C			x	x			x		Lots of organics/sent double volume
14		LL7ss-028M-SO	11-09-04	1000	S	C			x	x	x		x		
15		LL7ss-023M-SO	11-09-04	1550	S	C		x	x	x	x	x	x		
16		LNWsb-054-SO	11-09-04	1230	S	G		x	x	x					
17		LNWsb-056-DUP	11-09-04	1400	S	G		x	x	x					
18		LNWsb-055-SO	11-09-04	1330	S	G		x	x	x					
19		LNWsb-056-SO	11-09-04	1400	S	G		x	x	x					
20		LNWsb-057-SO	11-09-04	1500	S	G		x	x	x					
21		LNWsb-053-SO	11-09-04	1200	S	G		x	x	x					
22		LL7ss-030M-SO	11-09-04	1030	S	C			x	x	x		x		
23		LL7ss-014M-SO	11-09-04	1030	S	C			x	x			x		
24		CBLsd-001M-SO	11-09-04	1505	SE	C			x	x				x	

Relinquished by: <i>[Signature]</i>	Company: <b>MKM Engineers</b>	Date: <u>11/10/04</u>	Time: <u>1630</u>	Received By:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <i>[Signature]</i>	Company: <i>[Signature]</i>	Date: <u>11/10/04 1000</u>	Time:
Matrix Key	WW - Wastewater	DL - Drum Liquid	A Air	Comments: <i>[Signature]</i>			
W - Water	SE - Sediment	DS - Drum Solid	OL - Oil				
S - Soil	L - Leachate	W - Wipe	O _____				
SL - Sludge	M - Miscellaneous						
SO - Solid							
				Date Received: <u>11/10/04</u>			
				Courier: <u>Ex</u>			
				Hand Delivered:			
				Bill of Lading: <u>see attach</u>			

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

<b>Report To:</b>	Contact: Eric Ellis Company: MKM Engineers, Inc. Address: 8451 State Route 5 Ravenna, OH 44266 Phone: 330-358-2920 Fax: 330-358-2924 Email: eric.ellis@mkmingeers.com	<b>Bill To:</b>	Contact: Eric Ellis Company: MKM Engineers, Inc. Address: 8451 State Route 5 Ravenna, OH 44266 Phone: 330-358-2920 Fax: 330-358-2924 PO #:
-------------------	---	-----------------	--

Lab Lot # 231877

Sampler Name: ERIC ELLIS  
 Sampler Signature: [Signature]  
 Project Name: Characterization of RVAAP 14 AOCs  
 Project Number: 04-02-0030  
 Project Location: RVAAP - Ravenna, Ohio  
 Lab PM: Nancy McDonald

Package Sealed Yes No	Samples Sealed Yes No
Received on Ice Yes No	Samples Intact Yes No
Temperature C of Cooler	
Within Hold Time Yes No	
Preserv. Indicated Yes No N/A	
pH Check OK Yes No N/A	
Res CL2 Check OK Yes No N/A	
Sample Labels and COC Agree Yes No COC not present	

Date Required	21 Days	Refr. #	
Hard Copy	14 Days	# Cont.	
Fax/Email		Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Cr+6	Additional Analyses / Remarks
25		LL7sw-011-SW	11-10-04	1400	W	G	x	x	x	x	x	x	x		
26		LL7sd-012M-DUP	11-10-04	1340	SE	C			x	x	x		x		
27		LL7sd-012M-SO	11-10-04	1340	SE	C			x	x	x		x		

Relinquished by: <u>[Signature]</u>	Company: <b>MKM Engineers</b>	Date: <u>11/10/09</u>	Time: <u>1630</u>	Received By: <u>[Signature]</u>	Company: <b>STL North Canton (Courier)</b>	Date: _____	Time: _____
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date: _____	Time: _____	Received By:	Company: <b>Fed Ex</b>	Date: _____	Time: _____
Relinquished by:	Company: <b>FedEx</b>	Date: _____	Time: _____	Received By: <u>[Signature]</u>	Company: <b>STL</b>	Date: <u>11/11/09</u>	Time: <u>1000</u>

<b>Matrix Key</b> W - Water S - Soil SL - Sludge SO - Solid	WW - Wastewater SE - Sediment L - Leachate M - Miscellaneous	DL - Drum Liquid BS - Drum Solid W - Wipe	A - Air OL - Oil O _____	Comments: _____	Date Received: <u>11/11/09</u> Courier: <u>[Signature]</u> Hand Delivered: _____ Bill of Lading: <u>see attach</u>
---	---	---	--------------------------------	-----------------	---

rpjsckl	Job Sample Receipt Checklist Report			V2
Job Number.: 231877	Location.: 57222	Check List Number.: 1	Description.:	
Customer Job ID.....:	Job Check List Date.: 11/11/2004		Date of the Report.: 12/01/2004	
Project Number.: 20004694	Project Description.: USACE RVAAP 14 AOCs		Project Manager.....: nsm	
Customer.....: MKM Engineers, Inc.	Contact.: Eric Ellis			
Questions ?	(Y/N) Comments			
Chain-of-Custody Present?.....	Y			
Were samples dropped off at or picked up by STL?..	N			
Custody seal on shipping container?.....	Y			
...If "yes", custody seal intact?.....	Y			
Custody seals on sample containers?.....	N			
...If "yes", custody seal intact?.....				
Samples iced?.....	Y			
Temperature of cooler acceptable? (4 deg C +/- 2).	Y	2.8,3.1		
Samples received intact (good condition)?.....	Y			
Volatile samples acceptable? (no headspace).....	Y			
Correct containers used?.....	Y			
Adequate sample volume provided?.....	Y			
Samples preserved correctly?.....	Y			
Samples received within holding-time?.....	Y			
Agreement between CDC and sample labels?.....	Y			
Radioactivity at or below background levels?.....	Y			
A Sample Discrepancy Report (SDR) was needed?.....	N			
If samples were shipped was there an air bill #?..	Y			
Sample Custodian Signature/Date.....	Y			

**STL Sacramento**  
 880 Riverside Parkway  
 West Sacramento, CA 95605  
 (910) 373-5600  
 Fax: (916) 372-1059

**Report To:**

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmeengineers.com	PO #:	

**Bill To:**

Contact:	Eric Ellis
Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920
Fax:	330-358-2924
PO #:	
Quote #:	

**Lab Lot #**

Package Sealed Yes No	Samples Sealed Yes No
Received on Ice Yes No	Samples Intact Yes No
Temperature: C of Cooler	
Within Hold Time Yes No	
Preserv. Indicated Yes No N/A	
pH Check OK Yes No N/A	
Res CL2 Check OK Yes No N/A	
Sample Labels and COC Agree Yes No COC not present	

Sampler Name:	<b>ERIC ELLIS</b>
Sampler Signature:	<i>[Signature]</i>
Project Name:	Characterization of RVAAP 14 AOCs
Project Number:	04-02-0030
Project Location:	RVAAP - Ravenna, Ohio
Lab PM:	Nancy McDonald

Date Required		Refrg #	
Hard Copy	21 Days	# / Cont.	
Fax/Email	14 Days	Volume	
		Preserv	

STL-Sacramento (916) 373-5600

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	Propellants (Nitroguanidine/ Nitrocellulose)	Additional Analyses / Remarks
	X	LL7ss-013M-SO	11-09-04	1000	S	C	X	
		LL7ss-013M-DUP	11-09-04	1000	S	C	X	
		LL7ss-011M-SO	11-09-04	1430	S	C	X	
		CBLsd-002M-SD	11-09-04	1400	S	C	X	
		LL7ss-030M-SO	11-09-04	1030	S	C	X	
		LL7ss-023M-SO	11-09-04	1550	S	C	X	
		LL7ss-028M-SO	11-09-04	1000	S	C	X	
		LL7sw-011-SW	11-10-04	1400	W	G	X	
		LL7sd-012M-DUP	11-10-04	1340	SE	C	X	
		LL7sd-012M-SD	11-10-04	1340	SE	C	X	

RECEIVED IN GOOD CONDITION UNDER COC  
 NOV 11 2004  
 INI *[Signature]*

Relinquished by: <i>[Signature]</i>	Company: MKM Engineers	Date: 11/10/04	Time: 1630	Received By: <i>[Signature]</i>	Company: STL North Canton (Courier)	Date:	Time:
Relinquished by:	Company: STL North Canton (Courier)	Date:	Time:	Received By:	Company: Fed Ex	Date:	Time:
Relinquished by:	Company: FedEx	Date:	Time:	Received By: <i>[Signature]</i>	Company: STSae	Date: 11-11-04	Time: 1230
Matrix Key	WW - Wastewater	DL - Drum Liquid	A Air	Comments:	Date Received		
W - Water	SE - Sediment	DS - Drum Solid	OL - Oil		Courier:		
S - Soil	L - Leachate	W - Wipe	O		Hand Delivered:		
SL - Sludge	M - Miscellaneous				Bill of Lading:		
SO - Solid							

CLIENT STL-Chicago PM 24 LOG # 29614  
 LOT# (QUANTIMS ID) G4K110359 QUOTE# 60857 LOCATION W25A

DATE RECEIVED <u>11-11-04</u>		TIME RECEIVED <u>1010</u>		Initials <u>Ge</u>	Date <u>11-11-04</u>
DELIVERED BY	<input checked="" type="checkbox"/> FEDEX	<input type="checkbox"/> CA OVERNIGHT	<input type="checkbox"/> CLIENT		
	<input type="checkbox"/> AIRBORNE	<input type="checkbox"/> GOLDENSTATE	<input type="checkbox"/> DHL		
	<input type="checkbox"/> UPS	<input type="checkbox"/> BAX GLOBAL	<input type="checkbox"/> GO-GETTERS		
	<input type="checkbox"/> STL COURIER	<input type="checkbox"/> COURIERS ON DEMAND			
	<input type="checkbox"/> OTHER				
CUSTODY SEAL STATUS	<input checked="" type="checkbox"/> INTACT	<input type="checkbox"/> BROKEN	<input type="checkbox"/> N/A		
CUSTODY SEAL #(S)	<u>G12107 G12117</u>				
SHIPPING CONTAINER(S)	<input type="checkbox"/> STL	<input checked="" type="checkbox"/> CLIENT	<input type="checkbox"/> N/A		
TEMPERATURE RECORD (IN °C)	IR	1 <input type="checkbox"/> 3 <input checked="" type="checkbox"/>	<input type="checkbox"/> OTHER		
COC #(S)	<u>N/A</u>				
TEMPERATURE BLANK	<u>5°C</u>				
SAMPLE TEMPERATURE	<u>5°C</u>				
COLLECTOR'S NAME:	<input checked="" type="checkbox"/> Verified from COC	<input type="checkbox"/> Not on COC			
PH MEASURED	<input type="checkbox"/> YES	<input type="checkbox"/> ANOMALY	<input checked="" type="checkbox"/> N/A		
LABELED BY	.....				
LABELS CHECKED BY	.....				
PEER REVIEW	<input checked="" type="checkbox"/> NA				
SHORT HOLD TEST NOTIFICATION	SAMPLE RECEIVING				
	WETCHEM	<input checked="" type="checkbox"/> N/A			
	VOA-ENCORES	<input checked="" type="checkbox"/> N/A			
<input type="checkbox"/> METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL			<input checked="" type="checkbox"/> N/A		
<input checked="" type="checkbox"/> COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES			<input type="checkbox"/> N/A		
<input type="checkbox"/> Clouseau	<input type="checkbox"/> TEMPERATURE EXCEEDED (2 °C - 6 °C)*1	<input checked="" type="checkbox"/> N/A			
<input type="checkbox"/> WET ICE	<input type="checkbox"/> BLUE ICE	<input type="checkbox"/> GEL PACK	<input type="checkbox"/> NO COOLING AGENTS USED		
Notes:	.....				

\*1 Acceptable temperature range for State of Wisconsin samples is  $\leq 4^{\circ}\text{C}$ .

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

**Report To:**

**Bill To:**

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengineers.com	PO #:	
		Quote #:	

Lab Lot # **231912**

Package Sealed Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Samples Sealed Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Received on Ice Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Samples Intact Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Temperature C of Cooler: (3.1) (4.3)	

Sampler Name:	<i>ERIC ELLIS</i>
Sampler Signature:	<i>[Signature]</i>
Project Name:	Characterization of RVAAP 14 AOCs
Project Number:	04-02-0030
Project Location:	RVAAP - Ravenna, Ohio
Lab PM:	Nancy McDonald

Within Hold Time Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Preserv. Indicated Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
pH Check OK Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Rec. CL2 Check OK Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Sample Labels and COC Agree Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> COC not present

Date Required		Refrig #	
Hard Copy	21 Days	# of Cont.	
Fax/Email	14 Days	Volume	
		Present	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitrolycerin	Pest/PCBs	Nitrate	Cr+6	Additional Analyses / Remarks
1		B12ss-022M-SO	11-10-04	1025	S	C			x	x					
2		LL7ss-018M-QA	11-10-04	1145	S	C			x	x			x		
3		LNWsb-066-SO	11-10-04	1415	S	C		x	x	x					
4		LL7ss-019M-SO	11-10-04	1115	S	C			x	x	x		x		
5		LL7ss-021M-SO	11-10-04	1135	S	C			x	x	x		x		
6		LNWsb-061-SO	11-10-04	1000	S	C		x	x	x					
7	x	LL7ss-026M-SO	11-10-04	0910	S	C			x	x			x		
8		LNWsb-064-SO	11-10-04	1245	S	C		x	x	x					
9		LNWsb-062-SO	11-10-04	1030	S	C		x	x	x					
10		LL7ss-018M-SO	11-10-04	1140	S	C			x	x			x		
11		LL7ss-020M-SO	11-10-04	1005	S	C			x	x			x		
12		LL7ss-022M-SO	11-10-04	1205	S	C			x	x			x		

Relinquished by: <i>[Signature]</i>	Company: MKM Engineers	Date: 11 Nov 09	Time: 1630	Received By:	Company: STL North Canton (Courier)	Date:	Time:
Relinquished by:	Company: STL North Canton (Courier)	Date:	Time:	Received By:	Company: Fed Ex	Date:	Time:
Relinquished by:	Company: FedEx	Date:	Time:	Received By: <i>[Signature]</i>	Company: sn	Date: 11/12/09	Time: 0915

<b>Matrix Key</b>	WW - Wastewater	DL - Drum Liquid	A - Air
W - Water	SE - Sediment	DS - Drum Solid	OL - Oil
S - Soil	L - Leachate	W - Wipe	O _____
SL - Sludge	M - Miscellaneous		
SO - Solid			

Comments:	Date Received: 11/12/09
	Courier: FX
	Hand Delivered:
	Bill of Lading: see attach

42



STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

**Report To:**

**Bill To:**

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengeers.com	PO #:	

Lab Lot # **231912**

Sampler Name:	<i>Eric Ellis</i>
Sampler Signature:	<i>[Signature]</i>
Project Name:	Characterization of RVAAP 14 AOCs
Project Number:	04-02-0030
Project Location:	RVAAP - Ravenna, Ohio
Lab PM:	Nancy McDonald

Package Sealed Yes No	Samples Sealed Yes No
Received on Ice Yes No	Samples Intact Yes No
Temperature: C of Cooler	
Within Hold Time Yes No	
Preserv. Indicated Yes No N/A	
pH Check OK Yes No N/A	
Res Cl2 Check OK Yes No N/A	
Sample Labels and COC Agree Yes No COC not present	

Date Required		Reling #	
Hard Copy	21 Days	#/Cont.	
Fax/Email	14 Days	Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Cr+6	Additional Analyses / Remarks
13		ASYsd-024M-SD	11-11-04	1155	SE	C			X	X					Lots of organics/sent double volume
14		LNWsb-064-DUP	11-10-04	1245	S	C		X	X	X					
15		LNWsb-063-SO	11-10-04	1115	S	C		X	X	X					
16		LL7ss-024M-SO	11-10-04	0930	S	C			X	X			X		
17		LL7ss-024M-DUP	11-10-04	0930	S	C			X	X			X		
18		LL7ss-027M-SO	11-10-04	1400	S	C			X	X			X		
19		LNWsb-060-SO	11-10-04	0930	S	C		X	X	X					
20		LNWsb-067-SO	11-10-04	1340	S	C		X	X	X					
21		LL7ss-032M-SO	11-10-04	0855	S	C		X	X	X	X	X	X		
22		LNWsb-068-SO	11-10-04	1445	S	C		X	X	X					
23		LNWsb-059-SO	11-10-04	0900	S	C		X	X	X					
24		LL7ss-025M-SO	11-10-04	0935	S	C			X	X	X		X		

Relinquished by: <i>[Signature]</i>	Company: MKM Engineers	Date: 11 Nov 04	Time: 1630	Received By:	Company: STL North Canton (Courier)	Date:	Time:
Relinquished by:	Company: STL North Canton (Courier)	Date:	Time:	Received By:	Company: Fed Ex	Date:	Time:
Relinquished by:	Company: FedEx	Date:	Time:	Received By: <i>[Signature]</i>	Company: STL	Date: 11/12/04	Time: 0915

<b>Matrix Key</b>	WW - Wastewater	DL - Drum Liquid	A Air	Date Received: 11/12/04
W - Water	SE - Sediment	DS - Drum Solid	OL - Oil	Courier: <i>[Signature]</i>
S - Soil	L - Leachate	W - Wipe	O _____	Hand Delivered:
SL - Sludge	M - Miscellaneous			Bill of Lading: <i>see attach</i>
SO - Solid				

44

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

**Report To:**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
Phone: **330-358-2920**  
Fax: **330-358-2924**  
Email: **eric.ellis@mkmengeers.com**

**Bill To:**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
Phone: **330-358-2920**  
Fax: **330-358-2924**  
PO #:

Lab Lot # **231912**

Sampler Name: **Eric Ellis**  
Sampler Signature: *[Signature]*  
Project Name: **Characterization of RVAAP 14 AOCs**  
Project Number: **04-02-0030**  
Project Location: **RVAAP - Ravenna, Ohio**  
Lab PM: **Nancy McDonald**

Package Sealed  
Yes No  
Samples Sealed  
Yes No  
Received on ice  
Yes No  
Samples Intact  
Yes No  
Temperature C of Cooler:

Within Hold Time  
Yes No  
Preserv. Indicated  
Yes No N/A  
pH Check OK  
Yes No N/A  
Res. CL2 Check OK  
Yes No N/A

Date Required		Reling #																	
Hard Copy	21 Days	# / Cont.																	
Fax/Email	14 Days	Volume																	
		Preserv.																	

Sample Labels and COC Agree  
Yes No COC not present

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Cr+6	Additional Analyses / Remarks
25		LNWsb-065-SO	11-10-04	1145	S	C		x	x	x					
26		LNWsb-069-SO	11-10-04	1515	S	C		x	x	x					
27		CBLsw-004-SW	11-11-04	1415	W	G	x	x	x	x	x	x		x	Cr+6 - Watch hold time!
28		TRIP BLANK	LAB	LAB	W	G	x								
29		LL7ss-017M-SO	11-10-04	1450	S	C			x	x	x		x		
30		LL7ss-041-SO	11-11-04	1525	S	G	x								
31		B12ss-021M-SO	11-10-04	0925	S	C			x	x					

Relinquished by: <i>[Signature]</i>	Company: <b>MKM Engineers</b>	Date: <b>11 Nov 04</b>	Time: <b>1630</b>	Received By: <i>[Signature]</i>	Company: <b>STL North Canton (Courier)</b>	Date: <b>11/12/04</b>	Time: <b>0915</b>
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <i>[Signature]</i>	Company: <b>STL</b>	Date:	Time:

<b>Matrix Key</b> W - Water S - Soil SL - Sludge SO - Solid	WW - Wastewater SE - Sediment L - Leachate M - Miscellaneous	DL - Drum Liquid DS - Drum Solid W - Wipe	A - Air OL - Oil O -	Comments: <i>[Signature]</i>	Date Received: <b>11/12/04</b>
				Hand Delivered: <b>FK</b>	Bill of Lading: <b>see attach</b>

rpjsckl Job Sample Receipt Checklist Report		v2
Job Number.: 231912	Location.: 57222	Check List Number.: 1
Customer Job ID.....:		Description.: 11/12/2004
Project Number.: 20004694	Project Description.: USACE RVAAP 14 AACS	Date of the Report...: 12/01/2004
Customer.....: MKM Engineers, Inc.	Contact.: Eric Ellis	Project Manager.....: nsm
Questions ?	(Y/N)	Comments
Chain-of-Custody Present?.....	Y	
Were samples dropped off at or picked up by STL?..	N	
Custody seal on shipping container?.....	Y	
...If "yes", custody seal intact?.....	Y	
Custody seals on sample containers?.....	N	
...If "yes", custody seal intact?.....		
Samples iced?.....	Y	
Temperature of cooler acceptable? (4 deg C +/- 2).	Y	3.1,4.3
Samples received intact (good condition)?.....	Y	
Volatile samples acceptable? (no headspace).....	Y	
Correct containers used?.....	Y	
Adequate sample volume provided?.....	Y	
Samples preserved correctly?.....	Y	
Samples received within holding-time?.....	Y	
Agreement between CDC and sample labels?.....	Y	
Radioactivity at or below background levels?.....	Y	
A Sample Discrepancy Report (SDR) was needed?.....	N	
If samples were shipped was there an air bill #?..	Y	
Sample Custodian Signature/Date.....	Y	

**STL Sacramento**  
 880 Riverside Parkway  
 West Sacramento, CA 95605  
 (910) 373-5600  
 Fax: (916) 372-1059

**Report To:**

Contact: **Eric Ellis**  
 Company: **MKM Engineers, Inc.**  
 Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
 Phone: **330-358-2920**  
 Fax: **330-358-2924**  
 Email: **eric.ellis@mkmengineers.com**

**Bill To:**

Contact: **Eric Ellis**  
 Company: **MKM Engineers, Inc.**  
 Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
 Phone: **330-358-2920**  
 Fax: **330-358-2924**  
 PO #:

**Lab Lot #**

Package Sealed Yes No	Samples Sealed Yes No
Received on Ice Yes No	Samples Intact Yes No
Temperature C. of Cooler	
Within Hold Time Yes No	
Preserv. Indicated Yes No N/A	
pH Check OK Yes No N/A	
Res Cl2 Check OK Yes No N/A	
Sample Labels and COC Agree Yes No COC not present	

Sampler Name: **ERIC ELLIS**  
 Sampler Signature: *[Signature]*  
 Project Name: **Characterization of RVAAP 14 AOCs**  
 Project Number: **04-02-0030**  
 Project Location: **RVAAP - Ravenna, Ohio**  
 Lab PM: **Nancy McDonald**

Date Required		Refrg #	
Hard Copy	21 Days	# / Cont	
Fax/Email	14 Days	Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	Propellants (Nitroguanidine/Nitrocellulose)	Additional Analyses / Remarks
		LL7ss-019M-SO	11-10-04	1115	S	C	x	
		LL7ss-032M-SO	11-10-04	0855	S	C	x	
		LL7ss-021M-SO	11-10-04	1135	S	C	x	
		LL7ss-025M-SO	11-10-04	0935	S	C	x	
		CBLsw-004-SW	11-11-04	1415	W	G	x	
		LL7ss-017M-SO	11-10-04	1450	S	C	x	

RECEIVED IN GOOD CONDITION  
 UNDER COC  
 NOV 12 2004  
 NI *[Signature]*

Relinquished by: <i>[Signature]</i>	Company: <b>MKM Engineers</b>	Date: <b>11 Nov 04</b>	Time: <b>1630</b>	Received By: <i>[Signature]</i>	Company: <b>STL North Canton (Courier)</b>	Date: <b>11-12-04</b>	Time: <b>1420</b>
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <i>[Signature]</i>	Company: <b>STL SAC</b>	Date: <b>11-12-04</b>	Time: <b>1420</b>

**Matrix Key**  
 W - Water DL - Drum Liquid A Air  
 S - Soil SE - Sediment DS - Drum Solid OL - Oil  
 SL - Sludge L - Leachate W - Wipe O \_\_\_\_\_  
 SO - Solid M - Miscellaneous



STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

**Report To:**

**Bill To:**

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmenrgeers.com	PO #:	
		Quote #:	

Sampler Name:	<u>ERIC ELLIS</u>
Sampler Signature:	<u>[Signature]</u>
Project Name:	Characterization of RVAAP 14 AOCs
Project Number:	04-02-0030
Project Location:	RVAAP - Ravenna, Ohio
Lab PM:	Nancy McDonald

Package Sealed	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Samples Sealed	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Received on Ice	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Samples Intact	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Temperature C of Cooler			
3.2			

Within Hold Time	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Preserv. Indicated	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
pH Check OK	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Res Cl2 Check OK	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A

Date Required	21 Days	Refry #	
Hard Copy	14 Days	# of Cont.	
Fax/Email		Volume	
		Preserv.	

Sample Labels and COC Agree	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> COC not present
-----------------------------	---

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Cr+6	Additional Analyses / Remarks
1		CBLsd-004M-DUP	11-11-04	1445	SE	C			x	x				x	
2		ASYss-029M-SO	11-11-04	0930	S	C			x	x					
3		CBLsd-004M-SD	11-11-04	1445	SE	C			x	x				x	
4		ASYss-019M-SO	11-10-04	1630	S	C			x	x					
5		ASYss-025M-SO	11-11-04	0950	S	C			x	x					

Relinquished by: <u>[Signature]</u>	Company: <b>MKM Engineers</b>	Date: <u>11/12/04</u>	Time: <u>1400</u>	Received By:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <u>[Signature]</u>	Company: <u>SA</u>	Date: <u>11/13/04</u>	Time: <u>0905</u>
<b>Matrix Key</b>	WW - Wastewater	DL - Drum Liquid	A Air	Comments:			
W - Water	SE - Sediment	DS - Drum Solid	OL - Oil				
S - Soil	L - Leachate	W - Wipe	O _____				
SL - Sludge	M - Miscellaneous						
SO - Solid							
				Date Received: <u>11/13/04</u>			
				Courier: <u>PK</u>			
				Hand Delivered:			
				Bill of Lading: <u>see attach</u>			

Job Number.: 231977 Location.: 57222 Check List Number.: 1 Description.:  
 Customer Job ID..... Job Check List Date.: 11/13/2004 Date of the Report.: 12/01/2004  
 Project Number.: 20004694 Project Description.: USACE RVAAP 14 AOCS Project Manager.....: nsm  
 Customer.....: MKM Engineers, Inc. Contact.: Eric Ellis

Questions ? (Y/N) Comments

- Chain-of-Custody Present?..... Y
- Were samples dropped off at or picked up by STL?.. N
- Custody seal on shipping container?..... Y
- ...If "yes", custody seal intact?..... Y
- Custody seals on sample containers?..... N
- ...If "yes", custody seal intact?.....
- Samples iced?..... Y
- Temperature of cooler acceptable? (4 deg C +/- 2). Y 3.2
- Samples received intact (good condition)?..... Y
- Volatile samples acceptable? (no headspace).....
- Correct containers used?..... Y
- Adequate sample volume provided?..... Y
- Samples preserved correctly?..... Y
- Samples received within holding-time?..... Y
- Agreement between DOC and sample labels?..... Y
- Radioactivity at or below background levels?..... Y
- A Sample Discrepancy Report (SDR) was needed?..... N
- If samples were shipped was there an air bill #?.. Y
- Sample Custodian Signature/Date..... Y

STL Chicago  
2417 Bond St  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

Report To:

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44286	Address:	8451 State Route 5 Ravenna, OH 44286
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengeers.com	PO #:	

Bill To:

Contact:	Eric Ellis
Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44286
Phone:	330-358-2920
Fax:	330-358-2924
PO #:	

Lab Lot # 232010

Package Sealed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Sealed <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Received on Ice <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Temperature C of Cooler 4.0	
Within Hold Time <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Preserv. Indicated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
pH Check OK <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Free CL2 Check OK <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Sample Labels and COC Agree <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> COC not present	

Sampler Name:	ELLIS
Sampler Signature:	[Signature]
Project Name:	Characterization of RVAAP 14 AOCs
Project Number:	04-02-0030
Project Location:	RVAAP - Ravenna, Ohio
Lab PM:	Nancy McDonald

Date Required	21 Days	Refr #	
Hard Copy	14 Days	# / Cont.	
Fax/Email		Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Cr+6	Additional Analyses / Remarks
1		LL5ss-011M-SO	11-12-04	1210	S	C			X	X			X		
2		ASYss-030M-SO	11-10-04	1610	S	C			X	X					
3		ASYss-031M-SO	11-10-04	1615	S	C			X	X					
4		LL5ss-004M-SO	11-10-04	1020	S	C			X	X			X		
5		LL5ss-019M-SO	11-12-04	1145	S	C			X	X			X		
6		LL5ss-025M-SO	11-12-04	0855	S	C			X	X			X		
7		LL5ss-003M-SO	11-12-04	1100	S	C			X	X			X		
8	X	LL5ss-022M-SO	11-12-04	0930	S	C			X	X			X		
9		ASYss-022M-SO	11-12-04	0920	S	C			X	X			X		
10		LL5ss-024M-SO	11-12-04	1045	S	C			X	X			X		
11		LL5ss-002M-SO	11-12-04	1105	S	C			X	X			X		
12		ASYss-022M-QA	11-11-04	1000	S	C			X	X					

Relinquished by: [Signature]	Company: MKM Engineers	Date: 11/19/04	Time: 1630	Received By:	Company: STL North Canton (Courier)	Date:	Time:
Relinquished by:	Company: STL North Canton (Courier)	Date:	Time:	Received By:	Company: Fed Ex	Date:	Time:
Relinquished by:	Company: FedEx	Date:	Time:	Received By: [Signature]	Company: STL	Date: 11/16/04	Time: 0930

Matrix Key	WW - Wastewater	DL - Drum Liquid	A - Air	Date Received:	11/16/04
W - Water	SE - Sediment	DS - Drum Solid	OL - Oil	Counter:	Ex
S - Soil	L - Leachate	W - Wipe	O -	Hand Delivered:	
SL - Sludge	M - Miscellaneous			Bill of Lading:	see attach
SO - Solid					



STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

Report To:

Bill To:

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 6 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengeers.com	PO #:	
		Quote #:	

Sampler Name:	ERIC ELLIS
Sampler Signature:	[Signature]
Project Name:	Characterization of RVAAP 14 AOCs
Project Number:	04-02-0030
Project Location:	RVAAP - Ravenna, Ohio
Lab PM:	Nancy McDonald

Package Sealed Yes No	Samples Sealed Yes No
Received on ice Yes No	Samples Intact Yes No
Temperature C of Cooler	
Within Hold Time Yes No	
Preserv. Indicated Yes No N/A	
pH Check OK Yes No N/A	
Res Cl2 Check OK Yes No N/A	
Sample Labels and COC Agree Yes No COC not present	

Date Required		Refrig #	
Hard Copy	21 Days	# / Cont.	
Fax/Email	14 Days	Volumes	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Cr+6	Additional Analyses / Remarks
13		LL5ss-002M-DUP	11-12-04	1105	B	C			X	X			X		

Relinquished by: [Signature]	Company: MKM Engineers	Date: 11/15/04	Time: 1630	Received By:	Company: STL North Canton (Courier)	Date:	Time:
Relinquished by:	Company: STL North Canton (Courier)	Date:	Time:	Received By:	Company: Fed Ex	Date:	Time:
Relinquished by:	Company: FedEx	Date:	Time:	Received By: [Signature]	Company: [Signature]	Date: 11/16/04	Time: 0930

<b>Matrix Key</b> W - Water S - Soil SL - Sludge SO - Solid	WW - Wastewater SE - Sediment L - Leachate M - Miscellaneous	DL - Drum Liquid DS - Drum Solid W - Wipe	A - Air OL - Oil O - _____	Comments: [Signature]	Date Received: 11/16/04 Courier: EX Hand Delivered: Bill of Lading: See attach
---	---	---	----------------------------------	-----------------------	---

Job Number.: 232010	Location.: 57222	Check List Number.: 1	Description.:
Customer Job ID.....:		Job Check List Date.: 11/16/2004	Date of the Report...: 12/01/2004
Project Number.: 20004694	Project Description.: USACE RVAAP 14 AOCS		Project Manager.....: nsm
Customer.....: MKM Engineers, Inc.	Contact.: Eric Ellis		

Questions ?	(Y/N) Comments
-------------	----------------

Chain-of-Custody Present?.....	Y	
Were samples dropped off at or picked up by STL?..	N	
Custody seal on shipping container?.....	Y	
...If "yes", custody seal intact?.....	Y	
Custody seals on sample containers?.....	N	
...If "yes", custody seal intact?.....		
Samples iced?.....	Y	
Temperature of cooler acceptable? (4 deg C +/- 2).	Y	4.0
Samples received intact (good condition)?.....	Y	
Volatile samples acceptable? (no headspace).....		
Correct containers used?.....	Y	
Adequate sample volume provided?.....	Y	
Samples preserved correctly?.....	Y	
Samples received within holding-time?.....	Y	
Agreement between COC and sample labels?.....	Y	
Radioactivity at or below background levels?.....	Y	
A Sample Discrepancy Report (SDR) was needed?.....	N	
If samples were shipped was there an air bill #?..	Y	
Sample Custodian Signature/Date.....	Y	

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

**Report To:**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5**  
**Ravenna, OH 44268**  
Phone: **330-358-2920**  
Fax: **330-358-2924**  
Email: **eric.ellis@rnkmerengineers.com**

**Bill To:**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5**  
**Ravenna, OH 44268**  
Phone: **330-358-2920**  
Fax: **330-358-2924**  
PO #:

Lab Lot # **232093**

Package Sealed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Sealed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Received on ice <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Temperature C of Cooler <b>(3.0) (2.7) (3.3)</b>	

Sampler Name: **Eric Ellis**  
Sampler Signature: *[Signature]*  
Project Name: **Characterization of RVAAP 14 AOCs**  
Project Number: **04-02-0030**  
Project Location: **RVAAP - Ravenna, Ohio**  
Lab PM: **Nancy McDonald**

Within Hold Time <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Preserv. Indicated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <b>N/A</b>
pH Check OK <input type="checkbox"/> Yes <input type="checkbox"/> No <b>N/A</b>	Res CL2 Check OK <input type="checkbox"/> Yes <input type="checkbox"/> No <b>N/A</b>
Sample Labels and COC Agree <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <b>COC not present</b>	

Date Required		Refr #	
Hard Copy	21 Days	# / Cont.	
Fax/Email	14 Days	Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Cyanide	Additional Analyses / Remarks
1		LL5ss-017M-SO	11-15-04	1435	S	C			x	x			x		
2		LL5ss-014M-SO	11-15-04	1515	S	C			x	x			x		
3		ASYss-023M-SO	11-11-04	1055	S	C			x	x					
4		LL5ss-001M-SO	11-12-04	1405	S	C			x	x			x		
5		LL5ss-026M-QA	11-15-04	1535	S	C			x	x			x		
6		LL5ss-027M-SO	11-15-04	1125	S	C			x	x			x		
7		LL5ss-008M-SO	11-12-04	1440	S	C			x	x			x		
8		LL5ss-009M-SO	11-15-04	0855	S	C			x	x			x		
9		LL5ss-007M-SO	11-12-04	1415	S	C			x	x			x		
10		LL5ss-016M-QA	11-15-04	1410	S	C			x	x			x		
11		LL5ss-016M-SO	11-15-04	1440	S	C			x	x			x		
12		LL5ss-029M-SO	11-15-04	1005	S	C			x	x			x		

Relinquished by: <i>[Signature]</i>	Company: <b>MKM Engineers</b>	Date: <b>11/17/04</b>	Time: <b>1630</b>	Received By:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <i>[Signature]</i>	Company: <b>sn</b>	Date: <b>11/18/04</b>	Time: <b>0945</b>

**Matrix Key**

W - Water	DL - Drum Liquid	A - Air
S - Soil	DS - Drum Solid	OL - Oil
SL - Sludge	L - Leachate	O - _____
SO - Solid	M - Miscellaneous	W - Wipe

Comments:

Date Received	<b>11/18/04</b>
Courier:	<b>PK</b>
Hand Delivered:	
Bill of Lading:	<i>[Signature]</i>

34

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

**Report To:**

Contact:	Eric Ellis
Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920
Fax:	330-358-2924
Email:	eric.ellis@mkmengeers.com

**Bill To:**

Contact:	Eric Ellis
Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920
Fax:	330-358-2924
PO #:	
Quote #:	

Lab Lot # 232093

35

Sampler Name:	<u>ERIC ELLIS</u>
Sampler Signature:	<u>[Signature]</u>
Project Name:	Characterization of RVAAP 14 AOCs
Project Number:	04-02-0030
Project Location:	RVAAP - Ravenna, Ohio
Lab PM:	Nancy McDonald

Package Sealed	Yes	No	Samples Sealed	Yes	No
Received on Ice	Yes	No	Samples Intact	Yes	No
Temperature C of Cooler					
Within Hold Time					
Preserv. Indicated					
pH Check OK					
Res CL2 Check OK					
Sample Labels and COC Agree					

Date Required		Refrg #	
Hard Copy	21 Days	# / Cont.	
Fax/Email	14 Days	Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Cyanide	Additional Analyses / Remarks
13		LL5ss-028M-SO	11-15-04	0950	S	C			X	X			X		
14		LL5ss-015M-SO	11-15-04	1535	S	C			X	X			X		
15		LL5ss-013M-SO	11-15-04	1100	S	C			X	X			X		
16		LL5ss-026M-SO	11-15-04	1510	S	C			X	X			X		
17		L10ss-001M-SO	11-16-04	0835	S	C			X	X				X	
18		LL5ss-013M-SO	11-15-04	1100	S	C			X	X			X		
19		LL5ss-020M-DUP	11-15-04	1350	S	C			X	X			X		
20	X	L10ss-030M-SO	11-16-04	0950	S	C			X	X				X	
21		L10ss-026M-SO	11-16-04	0920	S	C			X	X				X	
22		LL5ss-023M-SO	11-15-04	1405	S	C			X	X			X		
23	X	L10ss-010M-SO	11-16-04	1115	S	C		X	X	X	X	X		X	
24		LL5ss-010M-DUP	11-15-04	0825	S	C			X	X			X		

Relinquished by: <u>[Signature]</u>	Company: <b>MKM Engineers</b>	Date: <u>11/17/04</u>	Time: <u>10:30</u>	Received By:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <u>[Signature]</u>	Company: <u>STL</u>	Date: <u>11/18/04</u>	Time: <u>0945</u>

<b>Matrix Key</b>	WW - Wastewater	DL - Drum Liquid	A - Air
W - Water	SE - Sediment	DS - Drum Solid	OL - Oil
S - Soil	L - Leachate	W - Wipe	O -
SL - Sludge	M - Miscellaneous		
SO - Solid			

Comments:	
Date Received	<u>11/18/04</u>
Courier:	<u>FX</u>
Hand Delivered:	
Bill of Lading:	<u>See attach</u>

Job Number.: 232093	Location.: 57222	Check List Number.: 1	Description.:
Customer Job ID.....:		Job Check List Date.: 11/18/2004	Date of the Report...: 12/06/2004
Project Number.: 20004694	Project Description.: USACE RVAAP 14 AOCs		Project Manager.....: nam
Customer.....: MKM Engineers, Inc.		Contact.: Eric Ellis	

Questions ?

(Y/N) Comments

Chain-of-Custody Present?..... Y

Were samples dropped off at or picked up by STL?.. N

Custody seal on shipping container?..... Y

...If "yes", custody seal intact?..... Y

Custody seals on sample containers?..... N

...If "yes", custody seal intact?.....

Samples iced?..... Y

Temperature of cooler acceptable? (4 deg C +/- 2). Y 3.0,2.7,3.3

Samples received intact (good condition)?..... Y

Volatile samples acceptable? (no headspace).....

Correct containers used?..... Y

Adequate sample volume provided?..... Y

Samples preserved correctly?..... Y

Samples received within holding-time?..... Y

Agreement between COC and sample labels?..... Y

Radioactivity at or below background levels?..... Y

A Sample Discrepancy Report (SDR) was needed?..... Y

If samples were shipped was there an air bill #?.. Y

Sample Custodian Signature/Date..... Y

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax 708-534-5211

**Report To:**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5**  
**Ravenna, OH 44286**  
Phone: **330-358-2920**  
Fax: **330-358-2924**  
Email: **eric.ellis@mkmeengineers.com**

**Bill To:**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5**  
**Ravenna, OH 44286**  
Phone: **330-358-2920**  
Fax: **330-358-2924**  
PO #:  
Quote #:

Lab Lot # **232095**

Package Sealed <input checked="" type="radio"/> Yes <input type="radio"/> No	Samples Sealed <input checked="" type="radio"/> Yes <input type="radio"/> No
Received on Ice <input checked="" type="radio"/> Yes <input type="radio"/> No	Samples Intact <input checked="" type="radio"/> Yes <input type="radio"/> No
Temperature C of Cooler <b>(3.0) (2.7) (3.3)</b>	

Sampler Name: **Eric Ellis**  
Sampler Signature: **[Signature]**  
Project Name: **Characterization of RVAAP 14 AOCs**  
Project Number: **04-02-0030**  
Project Location: **RVAAP - Ravenna, Ohio**  
Lab PM: **Nancy McDonald**

Within-Hold Time  
 Yes  No

Preserv. Indicated  
 Yes  No  N/A

pH Check OK  
 Yes  No  N/A

Res CL2 Check OK  
 Yes  No  N/A

Sample Labels and COC Agree  
 Yes  No  COC not present

Date Required	21 Days	Refr #	
Hard Copy	14 Days	# / Cont.	
Fax/Email		Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Cyanide	Additional Analyses / Remarks
1		L10ss-013M-SO	11-16-04	1510	S	C			x	x				x	
2		L10ss-031M-SO	11-16-04	1440	S	C			x	x				x	
3		LL5ss-010M-SO	11-15-04	0925	S	C			x	x			x		
4		L10ss-002M-SO	11-16-04	1415	S	C			x	x				x	
5		L10ss-014M-SO	11-16-04	1550	S	C			x	x				x	
6		L10ss-011M-SO	11-16-04	1045	S	C			x	x				x	
7		LL5ss-012M-SO	11-15-04	1025	S	C		x	x	x	x	x	x		
8		LL5ss-008M-SO	11-12-04	1500	S	C			x	x			x		
9		LL5ss-020M-SO	11-15-04	1350	S	C			x	x			x		
10		L10ss-013M-QA	11-16-04	1525	S	C			x	x				x	
11		LL5ss-012D-SO	11-15-04	1025	S	G	x								
12	x	L10ss-010D-SO	11-16-04	1115	S	G	x								

Relinquished by: <b>[Signature]</b>	Company: <b>MKM Engineers</b>	Date: <b>11/17/04</b>	Time: <b>1630</b>	Received By:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <b>[Signature]</b>	Company: <b>STL</b>	Date: <b>11/18/04</b>	Time: <b>0945</b>

**Matrix Key**

W - Water	DL - Drum Liquid	A - Air
S - Soil	DS - Drum Solid	OL - Oil
SL - Sludge	W - Wipe	O - _____
SO - Solid	M - Miscellaneous	

Comments:

Date Received: **11/18/04**

Courier: **STL**

Hand Delivered:

Bill of Lading: **see attach**

STL Chicago  
2417 Bond St  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

<b>Report To:</b>		<b>Bill To:</b>	
Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengeers.com	PO #:	
Quote #:		Quote #:	

Lab Lot # 232095

Package Sealed	Yes	No	Samples Sealed	Yes	No
Received on Ice	Yes	No	Samples Intact	Yes	No
Temperature C of Cooler					
Within Hold Time					
Yes No					
Preserv. Indicated					
Yes No N/A					
pH Check OK					
Yes No N/A					
Res CL2 Check OK					
Yes No N/A					
Sample Labels and COC Agree					
Yes No COC not present					

Sampler Name:	<u>Eric Ellis</u>
Sampler Signature:	<i>[Signature]</i>
Project Name:	Characterization of RVAAP 14 AOCs
Project Number:	04-02-0030
Project Location:	RVAAP - Ravenna, Ohio
Lab PM:	Nancy McDonald

Date Required	21 Days	Refrig #	
Hard Copy	14 Days	# / Cont.	
Fax/Email		Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCB6	Nitrate	Cyanide	Additional Analyses / Remarks
13		PIRss-003D-SO	11-16-04	1420	S	G	x								
14		TRIP BLANK	LAB	LAB	W	G	x								
15		PIRsw-001-SW	11-17-04	1421	W	G	x	x	x	x	x	x			

Relinquished by:	<i>[Signature]</i>	Company:	MKM Engineers	Date:	11/17/04	Time:	1630	Received By:	<i>[Signature]</i>	Company:	STL North Canton (Courier)	Date:		Time:	
Relinquished by:		Company:	STL North Canton (Courier)	Date:		Time:		Received By:		Company:	Fed Ex	Date:		Time:	
Relinquished by:		Company:	FedEx	Date:		Time:		Received By:	<i>[Signature]</i>	Company:	STL	Date:	11/18/04	Time:	0905
Matrix Key	W - Water	WW - Wastewater	DL - Drum Liquid	A - Air				Comments:				Date Received	11/18/04		
	S - Soil	SE - Sediment	DS - Drum Solid	OL - Oil								Courier:	FX		
	SL - Sludge	L - Leachate	W - Wipe	O - _____								Hand Delivered:			
	SO - Solid	M - Miscellaneous										Bill of Lading:	see attached		

24

Job Number.: 232095 Location.: 57222 Check List Number.: 1 Description.:  
 Customer Job ID.....: Job Check List Date.: 11/18/2004 Date of the Report.: 12/06/2004  
 Project Number.: 20004694 Project Description.: USACE RVAAP 14 ADCS Project Manager.....: nsm  
 Customer.....: MKM Engineers, Inc. Contact.: Eric Ellis

Questions ?	(Y/N) Comments
Chain-of-Custody Present?.....	Y
Were samples dropped off at or picked up by STL?..	N
Custody seal on shipping container?.....	Y
...If "yes", custody seal intact?.....	Y
Custody seals on sample containers?.....	N
...If "yes", custody seal intact?.....	
Samples iced?.....	Y
Temperature of cooler acceptable? (4 deg C +/- 2). Y	3.0,2.7,3.3
Samples received intact (good condition)?.....	Y
Volatile samples acceptable? (no headspace).....	Y
Correct containers used?.....	Y
Adequate sample volume provided?.....	Y
Samples preserved correctly?.....	Y
Samples received within holding-time?.....	Y
Agreement between CDC and sample labels?.....	Y
Radioactivity at or below background levels?.....	Y
A Sample Discrepancy Report (SDR) was needed?.....	N
If samples were shipped was there an air bill #?..	Y
Sample Custodian Signature/Date.....	Y



STL Sacramento  
 880 Riverside Parkway  
 West Sacramento, CA 95605  
 (910) 373-5600  
 Fax: (916) 372-1059

**Report To:**

Contact: **Eric Ellis**  
 Company: **MKM Engineers, Inc.**  
 Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
 Phone: **330-358-2920**  
 Fax: **330-358-2924**  
 Email: **eric.ellis@mkmengineers.com**

**Bill To:**

Contact: **Eric Ellis**  
 Company: **MKM Engineers, Inc.**  
 Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
 Phone: **330-358-2920**  
 Fax: **330-358-2924**  
 PO #:  
 Quote #:

**Lab Lot #**

Sampler Name: **Eric Ellis**  
 Sampler Signature: *[Signature]*  
 Project Name: **Characterization of RVAAP 14 AOCs**  
 Project Number: **04-02-0030**  
 Project Location: **RVAAP - Ravenna, Ohio**  
 Lab PM: **Nancy McDonald**

Package Sealed Yes No	Samples Sealed Yes No
Received on Ice Yes No	Samples Intact Yes No
Temperature C of Cooler	
Within Hold Time Yes No	
Preserv. Indicated Yes No N/A	
pH Check OK Yes No N/A	
Res CL2 Check OK Yes No N/A	
Sample Labels and COC Agree Yes No COC not present	

Date Required	Refrg #
Hard Copy 21 Days	#/ Cont.
Fax/Email 14 Days	Volume
	Preserv.

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	Propellants (Nitroguanidine/Nitrocellulose)	Additional Analyses / Remarks
		LL5ss-012M-SO	11-15-04	1025	S	C	x	
	x	L10ss-010M-SO	11-16-04	1115	S	C	x	
		PIRsw-001-SW	11-17-04	1421	W	G	x	

RECEIVED IN GOOD CONDITION UNDER COC  
 NOV 18 2004  
 INT *[Signature]*

Relinquished by: <i>[Signature]</i> Company: <b>MKM Engineers</b> Date: <b>11/17/04</b> Time: <b>1630</b>	Received By: <b>STL North Canton (Courier)</b> Company: <b>STL North Canton (Courier)</b> Date: Time: Date: Time:
Relinquished by: <b>STL North Canton (Courier)</b> Company: <b>STL North Canton (Courier)</b> Date: Time: Date: Time:	Received By: <b>Fed Ex</b> Company: <b>Fed Ex</b> Date: Time: Date: Time:
Relinquished by: <b>FedEx</b> Company: <b>FedEx</b> Date: Time: Date: Time:	Received By: <i>[Signature]</i> <b>STL-SAC</b> Company: <b>STL-SAC</b> Date: <b>11-18-04</b> Time: <b>1420</b>

Comments:   
 Date Received: **11-18-04**  
 Courier:   
 Hand Delivered:   
 Bill of Lading:

**Matrix Key**  
 W - Water  
 S - Soil  
 SL - Sludge  
 SO - Solid  
 WW - Wastewater  
 SE - Sediment  
 L - Leachate  
 M - Miscellaneous  
 DL - Drum Liquid  
 DS - Drum Solid  
 W - Wipe  
 A Air  
 OL - Oil  
 O \_\_\_\_\_

CLIENT MKM PM PH LOG # 29728  
LOT# (QUANTIMS ID) G4K180473 QUOTE# 60857 LOCATION W15B

DATE RECEIVED 11-18-04 TIME RECEIVED 955 Initials ME Date 11-18-04

- DELIVERED BY
- FEDEX
  - AIRBORNE
  - UPS
  - STL COURIER
  - OTHER
  - CA OVERNIGHT
  - GOLDENSTATE
  - BAX GLOBAL
  - COURIERS ON DEMAND
  - CLIENT
  - DHL
  - GO-GETTERS

CUSTODY SEAL STATUS  INTACT  BROKEN  N/A  
CUSTODY SEAL #(S) 613877, 613632

SHIPPING CONTAINER(S)  STL  CLIENT  N/A  
TEMPERATURE RECORD (IN °C) IR 1  3  OTHER

COC #(S) N/A  
TEMPERATURE BLANK 20  
SAMPLE TEMPERATURE 4°

COLLECTOR'S NAME:  Verified from COC  Not on COC

pH MEASURED  YES  ANOMALY  N/A

LABELED BY.....  
LABELS CHECKED BY.....  
PEER REVIEW  N/A

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING

- WETCHEM  N/A
- VOA-ENCORES  N/A

- METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL  N/A
- COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES  N/A
- Clouseau  TEMPERATURE EXCEEDED (2 °C - 6 °C)\*1  N/A
- WET ICE  BLUE ICE  GEL PACK  NO COOLING AGENTS USED  PM NOTIFIED

Notes: \_\_\_\_\_

\*1 Acceptable temperature range for State of Wisconsin samples is  $\leq 4^{\circ}\text{C}$ .

STL Chicago  
2417 Bond St.  
University Park, IL 60486  
708-534-5200  
Fax: 708-534-5211

<b>Report To:</b>		<b>Bill To:</b>	
Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8461 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengineers.com	PO #:	

Lab Lot # **232119**

Package Sealed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Sealed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Received on Ice <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Temperature: C of Cooler <b>(2.9) (3.0) (2.4) (4.0) (3.1)</b>	
Within Hold Time <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Preserv. Indicated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
pH Check OK <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Res CL2 Check OK <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Sample Labels and COC Agree <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> COC not present	

Sampler Name: **ERIC ELLIS**  
Sampler Signature: *[Signature]*  
Project Name: **Characterization of RVAAP 14 AOCs**  
Project Number: **04-02-0030**  
Project Location: **RVAAP - Ravenna, Ohio**  
Lab PM: **Nancy McDonald**

Date Required		Refrig #	
Hard Copy	21 Days	#/Com.	
Fax/Email	14 Days	Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate (pres/unpres)	Cyanide	Additional Analyses / Remarks
1		LL5sw-011-SW	11-18-04	0940	W	G	x	x	x	x		x	x		
2		LL5sw-012-SW	11-18-04	0910	W	G	x	x	x	x	x	x	x		
3		LL5sw-011-DUP	11-18-04	0940	W	G	x	x	x	x		x	x		
4		LL5ss-005M-ER	11-18-04	0920	W	G	x	x	x	x	x	x	x		
5		LL8ss-018-ER	11-18-04	0930	W	G	x								
6		PIRed-001D-SD	11-17-04	1525	SE	G	x								
7		PIRed-001D-DUP	11-17-04	1525	SE	G	x								
8		L10ss-021D-SO	11-18-04	0950	S	G	x								
9		L10ss-033D-SO	11-18-04	0910	S	G	x								
10		PIRss-005M-DUP	11-16-04	1025	S	C			x	x					
11		PIRss-005M-SO	11-16-04	1025	S	C			x	x					
12	x	PIRed-002M-SD	11-17-04	1020	SE	C			x	x					

Relinquished by: <i>[Signature]</i>	Company: <b>MKM Engineers</b>	Date: <b>18 Nov 04</b>	Time: <b>1630</b>	Received By:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <i>[Signature]</i>	Company: <b>STL</b>	Date: <b>11/19/04</b>	Time: <b>0915</b>
Matrix Key	WW - Wastewater	DL - Drum Liquid	A Air	Comments:		Date Received	
W - Water	SE - Sediment	DS - Drum Solid	OL - Oil			Courier:	<b>FX</b>
S - Soil	L - Leachate	W - Wipe	O _____			Hand Delivered:	
SL - Sludge	M - Miscellaneous					Bill of Lading:	<b>see attach</b>
SO - Solid							



STL

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

Report To:

Contact: Eric Ellis  
Company: MKM Engineers, Inc.  
Address: 8451 State Route 5  
Ravenna, OH 44268  
Phone: 330-358-2920  
Fax: 330-358-2924  
Email: eric.ellis@mkmengeers.com

Bill To:

Contact: Eric Ellis  
Company: MKM Engineers, Inc.  
Address: 8451 State Route 5  
Ravenna, OH 44268  
Phone: 330-358-2920  
Fax: 330-358-2924  
PO #:  
Quote #:

Lab Lot # 232119

Sampler Name: ERIC ELLIS  
Sampler Signature: [Signature]  
Project Name: Characterization of RVAAP 14 AOCs  
Project Number: 04-02-0030  
Project Location: RVAAP - Ravenna, Ohio  
Lab PM: Nancy McDonald

Package Sealed: Yes No  
Samples Sealed: Yes No  
Received on Ice: Yes No  
Samples Intact: Yes No  
Temperature C of Cooler  
Within Hold Time: Yes No  
Preserv. Indicated: Yes No N/A  
pH Check OK: Yes No N/A  
Res Cl2 Check OK: Yes No N/A  
Sample Labels and COC Agree: Yes No COC not present

Table with columns: Date Required, Hard Copy, Fax/Email, Retry #, #/Cont, Volume, Preserv.

Main data table with columns: Laboratory ID, MS-MSD, Client Sample ID, Sampling Date, Sampling Time, Matrix, Comp/Grab, VOC, SVOC, Explosives, TAL Metals, Nitroglycerin, Res/PCBs, Nitrate, Cyanide, Additional Analyses / Remarks

Relinquished by: [Signature] Company: MKM Engineers Date: 11/17/04 Time: 1630  
Received By: STL North Canton (Courier) Company: STL North Canton (Courier) Date: Time:  
Relinquished by: Company: STL North Canton (Courier) Date: Time:  
Received By: Fed Ex Company: Fed Ex Date: Time:  
Relinquished by: Company: FedEx Date: Time:  
Received By: [Signature] Company: SR Date: 11/19/04 Time: 0915  
Matrix Key: W - Water, S - Soil, SL - Sludge, SO - Solid, WW - Wastewater, SE - Sediment, L - Leachate, M - Miscellaneous, DL - Drum Liquid, DS - Drum Solid, W - Wipe, A Air, OL - Oil, O \_\_\_\_\_  
Comments: [Blank]  
Date Received: 11/19/04  
Courier: FX  
Hand Delivered:  
Bill of Lading: see attach

rpjsckl

Job Sample Receipt Checklist Report

V2

Job Number.: 232119	Location.: 57222	Check List Number.: 1	Description.:
Customer Job ID.....:		Job Check List Date.: 11/19/2004	Date of the Report...: 12/13/2004
Project Number.: 20004694	Project Description.: USACE RVAAP 14 AOCS		Project Manager.....: nsm
Customer.....: MKM Engineers, Inc.	Contact.: Eric Ellis		

Questions ?	(Y/N) Comments
-------------	----------------

Chain-of-Custody Present?.....	Y	
Were samples dropped off at or picked up by STL?..	N	
Custody seal on shipping container?.....	Y	
...If "yes", custody seal intact?.....	Y	
Custody seals on sample containers?.....	N	
...If "yes", custody seal intact?.....		
Samples iced?.....	Y	
Temperature of cooler acceptable? (4 deg C +/- 2).	Y	2.9,3.0,2.4,4.0,3.3
Samples received intact (good condition)?.....	Y	
Volatile samples acceptable? (no headspace).....	Y	
Correct containers used?.....	Y	
Adequate sample volume provided?.....	Y	
Samples preserved correctly?.....	Y	
Samples received within holding-time?.....	Y	
Agreement between COC and sample labels?.....	Y	
Radioactivity at or below background levels?.....	Y	
A Sample Discrepancy Report (SDR) was needed?.....	N	
If samples were shipped was there an air bill #?..	Y	
Sample Custodian Signature/Date.....	Y	

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

Report To:

Contact: Eric Ellis  
Company: MKM Engineers, Inc.  
Address: 8451 State Route 5  
Ravenna, OH 44266  
Phone: 330-368-2920  
Fax: 330-368-2924  
Email: eric.ellis@mkmengineers.com

Bill To:

Contact: Eric Ellis  
Company: MKM Engineers, Inc.  
Address: 8451 State Route 5  
Ravenna, OH 44266  
Phone: 330-368-2920  
Fax: 330-368-2924  
PO #:  
Quote #:

Lab Lot # 232120

Package Sealed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Sealed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Repacked on Ice <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Temperature C of Cooler (2.9) (3.0) (2.4) (4.0) (3.3)	
Within Hold Time <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Preserv. Indicated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
pH Check OK <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Res. CL2 Check OK <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Sample Labels and COC Agree <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> COC not present	

Sampler Name: Eric Ellis  
Sampler Signature: [Signature]  
Project Name: Characterization of RVAAP 14 AOCs  
Project Number: 04-02-0030  
Project Location: RVAAP - Ravenna, Ohio  
Lab PM: Nancy McDonald

Date Required	21 Days	Refg #	
Hard Copy	21 Days	# / Cont.	
Fax/Email	14 Days	Volume	
		Presence	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Cyanide	Additional Analyses / Remarks
1		L10ss-017M-DUP	11-17-04	1115	S	C			x	x				x	
2		L10ss-004M-SO	11-17-04	0929	S	C			x	x				x	
3		L10ss-015M-SO	11-17-04	0935	S	C			x	x				x	
4		L10ss-003M-SO	11-16-04	1325	S	C			x	x				x	
5		L10ss-034M-SO	11-17-04	1455	S	C			x	x				x	
6		L10ss-012M-SO	11-17-04	0900	S	C			x	x				x	
7		L10ss-019M-SO	11-17-04	1520	S	C			x	x				x	
8		L10ss-029M-SO	11-17-04	1040	S	C			x	x				x	
9		L10ss-025M-SO	11-16-04	0855	S	C			x	x			x	x	
10		LL5sd-013-SD	11-18-04	1045	SE	C			x	x			x		
11		L10ss-030M-QA	11-16-04	1010	S	C			x	x				x	
12		TRIP BLANK	LAB	LAB	W	G	x								

Relinquished by: [Signature]	Company: MKM Engineers	Date: 11/19/04	Time: 1630	Received By:	Company: STL North Canton (Courier)	Date:	Time:
Relinquished by:	Company: STL North Canton (Courier)	Date:	Time:	Received By:	Company: Fed Ex	Date:	Time:
Relinquished by:	Company: FedEx	Date:	Time:	Received By: [Signature]	Company: SR	Date: 11/19/04	Time: 0915

Matrix Key

W - Water	WW - Wastewater	DL - Drum Liquid	A - Air
S - Soil	SE - Sediment	DS - Drum Solid	OL - Oil
SL - Sludge	L - Leachate	W - Wipe	O _____
SO - Solid	M - Miscellaneous		

Comments: [Signature]

Date Received: 11/19/04  
Courier: EX  
Hand Delivered:  
Bill of Lading: see attach

rpjckl	Job Sample Receipt Checklist Report	V2
Job Number.: 232120	Location.: 57222	Check List Number.: 1
Customer Job ID.....:		Description.:
Project Number.: 20004694	Project Description.: USACE RVAAP 14 AOCS	Job Check List Date.: 11/19/2004
Customer.....: MKM Engineers, Inc.	Contact.: Eric Ellis	Date of the Report...: 12/14/2004
		Project Manager.....: nsm
Questions ?	(Y/N)	Comments
Chain-of-Custody Present?.....	Y	
Were samples dropped off at or picked up by STL?..	N	
Custody seal on shipping container?.....	Y	
...If "yes", custody seal intact?.....	Y	
Custody seals on sample containers?.....	N	
...If "yes", custody seal intact?.....		
Samples iced?.....	Y	
Temperature of cooler acceptable? (4 deg C +/- 2).	Y	2.9,3.0,2.4,4.0,3.3
Samples received intact (good condition)?.....	Y	
Volatile samples acceptable? (no headspace).....		
Correct containers used?.....	Y	
Adequate sample volume provided?.....	Y	
Samples preserved correctly?.....	Y	
Samples received within holding-time?.....	Y	
Agreement between COC and sample labels?.....	Y	
Radioactivity at or below background levels?.....	Y	
A Sample Discrepancy Report (SDR) was needed?.....	N	
If samples were shipped was there an air bill #?..	Y	
Sample Custodian Signature/Date.....	Y	

**STL Sacramento**  
 880 Riverside Parkway  
 West Sacramento, CA 95605  
 (910) 373-5800  
 Fax: (916) 372-1059

**Report To:**

Contact:	Eric Ellis
Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920
Fax:	330-358-2924
Email:	eric.ellis@mkmengeers.com

**Bill To:**

Contact:	Eric Ellis
Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920
Fax:	330-358-2924
PO #:	
Quote #:	

**Lab Lot #**

Package Sealed Yes No	Samples Sealed Yes No
Received on Ice Yes No	Samples Intact Yes No
Temperature C of Cooler	
Within Hold Time Yes No	
Preserv. Indicated Yes No N/A	
pH Check OK Yes No N/A	
Res CL2 Check OK Yes No N/A	
Sample Labels and COC Agree Yes No COC not present	

Sampler Name:	ERIC ELLIS
Sampler Signature:	
Project Name:	Characterization of RVAAP 14 AOCs
Project Number:	04-02-0030
Project Location:	RVAAP - Ravenna, Ohio
Lab PM:	Nancy McDonald

Date Required		Refrg #																			
Hard Copy	21 Days	# / Cont																			
Fax/Email	14 Days	Volume																			
		Preserv																			

STL-Sacramento (916) 373-5800

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	Propellants (Nitroguanidine/ Nitrocellulose)															Additional Analyses / Remarks
		LL5sw-012-SW	11-18-04	0910	W	G	x															
		LL5ss-005M-ER	11-18-04	0920	W	G	x															
		PIRsd-001M-DUP	11-17-04	1520	SE	C	x															
		PIRsd-001M-SD	11-17-04	1520	SE	C	x															
		PIRss-003M-SO	11-16-04	1420	SE	C	x															

RECEIVED IN GOOD CONDITION UNDER COC  
 NOV 19 2004  
 INI Ge

Relinquished by:	Company: MKM Engineers	Date: 18 Nov 04	Time: 1630	Received By:	Company: STL North Canton (Courier)	Date:	Time:
Relinquished by:	Company: STL North Canton (Courier)	Date:	Time:	Received By:	Company: FedEx	Date:	Time:
Relinquished by:	Company: FedEx	Date:	Time:	Received By:	Company: STSAC	Date: 11/19/04	Time: 1200

<b>Matrix Key</b> W - Water S - Soil SL - Sludge SO - Solid WW - Wastewater SE - Sediment L - Leachate M - Miscellaneous DL - Drum Liquid DS - Drum Solid W - Wipe A Air OL - Oil O _____
---

Comments:	Date Received
	Courier:
	Hand Delivered:
	Bill of Lading:





# STL

## LOT RECEIPT CHECKLIST STL Sacramento

CLIENT STL-CHICAGO PM PH LOG # 29738

LOT# (QUANTIMS ID) G4K190351 QUOTE# 60857 LOCATION W13D

		Initials	Date
DATE RECEIVED	<u>11-19-04</u>	<u>Ge</u>	<u>11-19-04</u>
TIME RECEIVED	<u>0935</u>		
DELIVERED BY	<input checked="" type="checkbox"/> FEDEX <input type="checkbox"/> CA OVERNIGHT <input type="checkbox"/> CLIENT <input type="checkbox"/> AIRBORNE <input type="checkbox"/> GOLDENSTATE <input type="checkbox"/> DHL <input type="checkbox"/> UPS <input type="checkbox"/> BAX GLOBAL <input type="checkbox"/> GO-GETTERS <input type="checkbox"/> STL COURIER <input type="checkbox"/> COURIERS ON DEMAND <input type="checkbox"/> OTHER		
CUSTODY SEAL STATUS	<input checked="" type="checkbox"/> INTACT <input type="checkbox"/> BROKEN <input type="checkbox"/> N/A		
CUSTODY SEAL #(S)	<u>612257 612247</u>		
SHIPPING CONTAINER(S)	<input type="checkbox"/> STL <input checked="" type="checkbox"/> CLIENT <input type="checkbox"/> N/A		
TEMPERATURE RECORD (IN °C)	IR 1 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		
COC #(S)	<u>N/A</u>		
TEMPERATURE BLANK	<u>4°c</u>		
SAMPLE TEMPERATURE	<u>5°c</u>		
COLLECTOR'S NAME:	<input checked="" type="checkbox"/> Verified from COC <input type="checkbox"/> Not on COC		
PH MEASURED	<input type="checkbox"/> YES <input type="checkbox"/> ANOMALY <input checked="" type="checkbox"/> N/A		
LABELED BY	.....		
LABELS CHECKED BY	.....		
PEER REVIEW	<input checked="" type="checkbox"/> NA		
SHORT HOLD TEST NOTIFICATION			
SAMPLE RECEIVING	<input checked="" type="checkbox"/> WETCHEM <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> VOA-ENCORES <input checked="" type="checkbox"/> N/A		
<input type="checkbox"/> METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL	<input checked="" type="checkbox"/> N/A		
<input checked="" type="checkbox"/> COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES	<input type="checkbox"/> N/A		
<input type="checkbox"/> Clouseau	<input type="checkbox"/> TEMPERATURE EXCEEDED (2 °C – 6 °C)*1 <input checked="" type="checkbox"/> N/A		
<input type="checkbox"/> WET ICE	<input type="checkbox"/> BLUE ICE <input type="checkbox"/> GEL PACK <input type="checkbox"/> NO COOLING AGENTS USED <input type="checkbox"/> PM NOTIFIED		

Notes: \_\_\_\_\_

\*1 Acceptable temperature range for State of Wisconsin samples is  $\leq 4^{\circ}\text{C}$ .

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

<b>Report To:</b>		<b>Bill To:</b>	
Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengineers.com	PO #:	
		Quote #:	

Lab Lot # **232168**

333

Sampler Name:	ERIC ELLIS
Sampler Signature:	<i>[Signature]</i>
Project Name:	Characterization of RVAAP 14 AOCs
Project Number:	04-02-0030
Project Location:	RVAAP - Ravenna, Ohio
Lab PM:	Nancy McDonald

Package Sealed	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Samples Sealed	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Repacked on Ice	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Samples Intact	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Temperature C of Cooler: 4.1, 3.4, 3.2, 4.3, 3.7			
Within Hold Time	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Preserv. Indicated	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
pH Check OK	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Res CL2 Check OK	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Sample Labels and CQC Agree	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> CQC not present		

Date Required		Refr #	
Hard Copy	21 Days	# / Cont.	
Fax/Email	14 Days	Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Cyanide	Additional Analyses / Remarks
1		LL8sw-018-SW	11-19-04	0935	W	G	x	x	x	x		x	x		
2		LL8sw-019-SW	11-19-04	1005	W	G	x	x	x	x		x	x		
3		L10ss-027M-ER	11-18-04	1645	W	G	x	x	x	x	x	x		x	
4		TRIP BLANK	LAB	LAB	W	G	x								
5		L10ss-037-SO	11-19-04	1005	S	G	x								
6		L10ss-037-DUP	11-19-04	1005	S	G	x								
7		LL5ss-030-SO	11-19-04	1045	S	G	x								
8		LL8ss-019-SO	11-19-04	0850	S	G	x								
9		LL5ss-030-DUP	11-19-04	1045	S	G	x								
10		L10ss-039-SO	11-19-04	0935	S	G	x								
11		L10ss-038-SO	11-19-04	1045	S	G	x								
12		L10ss-027D-SO	11-19-04	1155	S	G	x								

Relinquished by:	Company: MKM Engineers	Date: 11/19/04	Time: 1630	Received By:	Company: STL North Canton (Courier)	Date:	Time:
Relinquished by:	Company: STL North Canton (Courier)	Date:	Time:	Received By:	Company: Fed Ex	Date:	Time:
Relinquished by:	Company: FedEx	Date:	Time:	Received By:	Company: <i>[Signature]</i>	Date: 11/20/04	Time: 0900

<b>Matrix Key</b>	WW - Wastewater	DL - Drum Liquid	A Air
W - Water	SE - Sediment	DS - Drum Solid	OL - Oil
S - Soil	L - Leachate	W - Wipe	O _____
SL - Sludge	M - Miscellaneous		
SO - Solid			

Comments:	<i>[Signature]</i>
Date Received:	11/20/04
Courier:	FX
Hand Delivered:	
Bill of Lading:	<i>[Signature]</i>

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

**Report To:**

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	3451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengeers.com	PO #:	

Lab Lot # 23268

Package Sealed	Yes	No	Samples Sealed	Yes	No
Received on Ice	Yes	No	Samples Intact	Yes	No
Temperature °C of Cooler					

Sampler Name: Eric Ellis  
 Sampler Signature: [Signature]  
 Project Name: **Characterization of RVAAP 14 AOCs**  
 Project Number: **04-02-0030**  
 Project Location: **RVAAP - Ravenna, Ohio**  
 Lab PM: **Nancy McDonald**

Within Hold Time  
Yes No

Preserv. Indicated  
Yes No N/A

pH Check OK  
Yes No N/A

Res CL2 Check OK  
Yes No N/A

Date Required	21 Days	Refrig #	
Hard Copy	14 Days	# / Cont.	
Fax/Email		Volume	
		Preserv.	

Sample Labels and COC Agree  
Yes No COC not present

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Cyanide	Additional Analyses / Remarks
13		L10ss-005M-SO	11-17-04	0850	S	C			x	x				x	
14		L10ss-005M-DUP	11-17-04	0850	S	C			x	x				x	
15		L10ss-009M-SO	11-17-04	1350	S	C			x	x				x	
16		L10ss-016M-SO	11-17-04	1440	S	C			x	x				x	
17		LL7ss-038M-SO	11-18-04	1520	S	C			x	x	x		x		
18		L10ss-036M-SO	11-17-04	1610	S	C			x	x				x	
19		L10ss-023M-SO	11-18-04	1110	S	C			x	x				x	
20		L10ss-024M-SO	11-17-04	1420	S	C			x	x				x	
21		L10ss-022M-SO	11-18-04	1020	S	C			x	x				x	
22		L10ss-006M-SO	11-17-04	1140	S	C			x	x				x	
23		LL7ss-040M-SO	11-18-04	1550	S	C			x	x	x		x		
24		L10ss-021M-SO	11-18-04	0950	S	C		x	x	x	x	x		x	

Relinquished by: <u>[Signature]</u>	Company: <b>MKM Engineers</b>	Date: <u>11/19/04</u>	Time: <u>1630</u>	Received By:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <u>[Signature]</u>	Company: <u>[Signature]</u>	Date: <u>11/20/04</u>	Time: <u>0900</u>

Matrix Key  
 W - Water      WW - Wastewater      DL - Drum Liquid      A - Air  
 S - Soil        SE - Sediment        DS - Drum Solid      OL - Oil  
 SL - Sludge    L - Leachate        W - Wipe              O - \_\_\_\_\_  
 SO - Solid     M - Miscellaneous

Comments: [Signature]

Date Received: 11/20/04  
 Courier: FX  
 Hand Delivered:  
 Bill of Lading: see attach

34

rpjsckl	Job Sample Receipt Checklist Report	V2
Job Number.: 232168	Location.: 57222	Check List Number.: 1
Customer Job ID.....:	Job Check List Date.: 11/20/2004	Date of the Report...: 12/06/2004
Project Number.: 20004694	Project Description.: USACE RVAAP 14 AQCS	Project Manager.....: nsm
Customer.....: MKM Engineers, Inc.	Contact.: Eric Ellis	
Questions ?	(Y/N) Comments	
Chain-of-Custody Present?.....	Y	
Were samples dropped off at or picked up by STL?..	N	
Custody seal on shipping container?.....	Y	
...If "yes", custody seal intact?.....	Y	
Custody seals on sample containers?.....	N	
...If "yes", custody seal intact?.....		
Samples iced?.....	Y	
Temperature of cooler acceptable? (4 deg C +/- 2).	Y	4.1,3.4,3.2,4.3,3.7
Samples received intact (good condition)?.....	Y	
Volatile samples acceptable? (no headspace).....	Y	
Correct containers used?.....	Y	
Adequate sample volume provided?.....	Y	
Samples preserved correctly?.....	Y	
Samples received within holding-time?.....	Y	
Agreement between COC and sample labels?.....	Y	
Radioactivity at or below background levels?.....	Y	
A Sample Discrepancy Report (SDR) was needed?.....	N	
If samples were shipped was there an air bill #?..	Y	
Sample Custodian Signature/Date.....	Y	

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

**Report To:**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
Phone: **330-358-2920**  
Fax: **330-358-2924**  
Email: **eric.ellis@mkmenengineers.com**

**Bill To:**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
Phone: **330-358-2920**  
Fax: **330-358-2924**  
PO #:

Sampler Name: **ERIC ELLIS**  
Sampler Signature: *[Signature]*  
Project Name: **Characterization of RVAAP 14 AOCs**  
Project Number: **04-02-0030**  
Project Location: **RVAAP - Ravenna, Ohio**  
Lab PM: **Nancy McDonald**

Package Sealed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Sealed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Repacked on Ice <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Temperature C of Cooler <b>(4.1) (3.4) (3.2) (4.3) (3.7)</b>	
Within Hold Time <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Preserv. Indicated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
pH Check OK <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Res Cl2 Check OK <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Sample Labels and COC Agree <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> COC not present	

Date Required	21 Days	Refr #	
Hard Copy	14 Days	# / Cont.	
Fax/Email		Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Cyanide	Additional Analyses / Remarks
1		L10ss-033M-SO	11-18-04	0910	S	C		x	x	x	x	x		x	
2		LL7ss-039M-SO	11-18-04	1520	S	C			x	x			x		
3		LL7ss-037M-SO	11-18-04	1450	S	C			x	x			x		
4		LL7ss-034M-SO	11-18-04	1405	S	C			x	x	x		x		
5		LL7ss-042M-SO	11-18-04	1545	S	C			x	x	x		x		
6	x	LL7ss-036M-SO	11-18-04	1415	S	C			x	x	x		x		
7		LL7ss-033M-DUP	11-18-04	1325	S	C			x	x			x		
8		L10ss-035M-SO	11-18-04	1045	S	C			x	x				x	
9		LL7ss-033M-SO	11-18-04	1325	S	C			x	x			x		
10		LL7ss-035M-SO	11-18-04	1445	S	C			x	x			x		
4		L10sw-025-SW	11-19-04	1415	W	G	x	x	x	x		x		x	

Relinquished by: <i>[Signature]</i>	Company: <b>MKM Engineers</b>	Date: <b>11/19/04</b>	Time: <b>1530</b>	Received By:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <i>[Signature]</i>	Company: <i>SR</i>	Date: <b>11/20/04 0800</b>	Time:

**Matrix Key**

W - Water	WW - Wastewater	DL - Drum Liquid	A - Air
S - Soil	SE - Sediment	DS - Drum Solid	OL - Oil
SL - Sludge	L - Leachate	W - Wipe	O - _____
SO - Solid	M - Miscellaneous		

Comments: *[Signature]*

Date Received	<b>11/20/04</b>
Courier:	<b>FR</b>
Hand Delivered:	
Bill of Lading:	<i>see attached</i>

rpjsckl		Job Sample Receipt Checklist Report		V2
Job Number.: 232169	Location.: 57222	Check List Number.: 1	Description.:	
Customer Job ID.....:		Job Check List Date.: 11/20/2004		Date of the Report...: 12/14/2004
Project Number.: 20004694	Project Description.: USACE RVAAP 14 AGCS			Project Manager.....: nsm
Customer.....: MKM Engineers, Inc.		Contact.: Eric Ellis		
Questions ?	(Y/N)	Comments		
Chain-of-Custody Present?.....	Y			
Were samples dropped off at or picked up by STL?..	N			
Custody seal on shipping container?.....	Y			
...If "yes", custody seal intact?.....	Y			
Custody seals on sample containers?.....	N			
...If "yes", custody seal intact?.....				
Samples iced?.....	Y			
Temperature of cooler acceptable? (4 deg C +/- 2)..	Y	4.1,3.4,3.2,4.3,3.7		
Samples received intact (good condition)?.....	Y			
Volatile samples acceptable? (no headspace).....	Y			
Correct containers used?.....	Y			
Adequate sample volume provided?.....	Y			
Samples preserved correctly?.....	Y			
Samples received within holding-time?.....	Y			
Agreement between CDC and sample labels?.....	Y			
Radioactivity at or below background levels?.....	Y			
A Sample Discrepancy Report (SDR) was needed?.....	N			
If samples were shipped was there an air bill #?..	Y			
Sample Custodian Signature/Date.....	Y			

**STL Sacramento**  
 880 Riverside Parkway  
 West Sacramento, CA 95605  
 (910) 373-5600  
 Fax. (916) 372-1059

**Report To:**

Contact: **Eric Ellis**  
 Company: **MKM Engineers, Inc.**  
 Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
 Phone: **330-358-2920**  
 Fax: **330-358-2924**  
 Email: **eric.ellis@mkmengineers.com**

**Bill To:**

Contact: **Eric Ellis**  
 Company: **MKM Engineers, Inc.**  
 Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
 Phone: **330-358-2920**  
 Fax: **330-358-2924**  
 PO #:  
 Quote #:

**Lab Lot #**

Package Sealed Yes No	Samples Sealed Yes No
Received on Ice Yes No	Samples Intact Yes No
Temperature C. of Cooler	
Within Hold Time Yes No	
Preserv. Indicated Yes No N/A	
pH Check OK Yes No N/A	
Res Cl2 Check OK Yes No N/A	
Sample Labels and COC Agree Yes No COC not present	

Sampler Name: **ERIC ELLIS**  
 Sampler Signature: *[Signature]*  
 Project Name: **Characterization of RVAAP 14 AOCs**  
 Project Number: **04-02-0030**  
 Project Location: **RVAAP - Ravenna, Ohio**  
 Lab PM: **Nancy McDonald**

Date Required		Refrig #	
Hard Copy	21 Days	# / Cont.	
Fax/Email	14 Days	Volume	
		Preserv	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	Propellants (Nitroguandine/ Nitrocellulose)	Additional Analyses / Remarks									
		L10ss-027M-ER	11-18-04	1645	W	G	X										
		L10ss-033M-SO	11-18-04	0910	S	C	X										
		LL7ss-038M-SO	11-18-04	1520	S	C	X										
	X	LL7ss-036M-SO	11-18-04	1415	S	C	X										
		L10ss-021M-SO	11-18-04	0950	S	C	X										
		LL7ss-034M-SO	11-18-04	1405	S	C	X										
		LL7ss-042M-SO	11-18-04	1545	S	C	X										

RECEIVED IN GOOD CONDITION UNDER COC  
 NOV 20 2004  
 INI *[Signature]*

Relinquished by: <i>[Signature]</i>	Company: <b>MKM Engineers</b>	Date: <b>11/19/04</b>	Time: <b>1630</b>	Received By:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <i>[Signature]</i>	Company: <b>STC-SRC</b>	Date: <b>11-20-04</b>	Time: <b>1020</b>

**Matrix Key**  
 W - Water  
 S - Soil  
 SL - Sludge  
 SO - Solid  
 WW - Wastewater  
 SE - Sediment  
 L - Leachate  
 M - Miscellaneous  
 DL - Drum Liquid  
 DS - Drum Solid  
 W - Wipe  
 A - Air  
 OL - Oil  
 O \_\_\_\_\_

Comments:

Date Received
Courier:
Hand Delivered:
Bill of Lading:





STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

**Report To:**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
Phone: **330-358-2920**  
Fax: **330-358-2924**  
Email: **eric.ellis@mkmengeers.com**

**Bill To:**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
Phone: **330-358-2920**  
Fax: **330-358-2924**  
PO #:  
Quote #:

Lab Lot # **232200**

Package Sealed: Yes  No   
Samples Sealed: Yes  No   
Received on-ice: Yes  No   
Samples Intact: Yes  No   
Temperature C of Cooler: (2.7) (2.4)

Sampler Name: **Eric Ellis**  
Sampler Signature: *[Signature]*  
Project Name: **Characterization of RVAAP 14 AOCs**  
Project Number: **04-02-0030**  
Project Location: **RVAAP - Ravenna, Ohio**  
Lab PM: **Nancy McDonald**

Within Hold Time: Yes  No   
Preserv. Indicated: Yes  No  N/A   
pH Check OK: Yes  No  N/A   
Res GL2 Check OK: Yes  No  N/A   
Sample Labels and COC Agree: Yes  No  COC not present

Date Required		Refr #																
Hard Copy	21 Days	# / Cont.																
Fax/Email	14 Days	Volume																
		Preserv.																

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Cyanide	TCLP Metals	Additional Analyses / Remarks
1		PIR-001-WD	11-22-04	0945	S	G									x	
2		LL5ss-018D-SO	11-19-04	1500	S	G	x									
3		L10ss-040M-SO	11-19-04	1515	S	C			x	x					x	
4		LL5ss-005M-SO	11-19-04	1415	S	C		x	x	x	x	x	x			
5		L10ss-027M-SO	11-19-04	1200	S	C		x	x	x	x	x		x		
6		L10ss-027M-DUP	11-19-04	1200	S	C		x	x	x	x	x		x		
7		LL7ss-036M-QA	11-18-04	1445	S	C			x	x	x		x			
8		LL5ss-018M-SO	11-19-04	1509	S	C		x	x	x	x	x	x			
9		L10ss-032M-SO	11-18-04	1305	S	C			x	x				x		
10		LL5ss-021M-SO	11-19-04	1350	S	C			x	x			x			
11		L10ss-028M-SO	11-18-04	1330	S	C			x	x				x		
12		LL5ss-021M-DUP	11-19-04	1550	S	C			x	x			x			

Relinquished by: <i>[Signature]</i>	Company: <b>MKM Engineers</b>	Date: <b>11/22/04</b>	Time: <b>1630</b>	Received By:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <i>[Signature]</i>	Company: <b>se</b>	Date: <b>11/23/04</b>	Time: <b>0940</b>

**Matrix Key**

W - Water	WW - Wastewater	DL - Drum Liquid	A - Air
S - Soil	SE - Sediment	DS - Drum Solid	OL - Oil
SL - Sludge	L - Leachate	W - Wipe	O - _____
SO - Solid	M - Miscellaneous		

Comments: *[Signature]*

Date Received: **11/23/04**  
Courier: **FX**  
Hand Delivered:  
Bill of Lading:



STL

STL Chicago
2417 Bond St.
University Park, IL 60466
708-534-5200
Fax: 708-534-5211

Report To: Eric Ellis, MKM Engineers, Inc., 8451 State Route 5, Ravenna, OH 44266
Bill To: Eric Ellis, MKM Engineers, Inc., 8451 State Route 5, Ravenna, OH 44266

Lab Lot # 232200

Package Sealed: Yes No, Samples Sealed: Yes No, Received on Ice: Yes No, Samples Intact: Yes No, Temperature C of Cooler

Sampler Name: Eric Ellis, Sampler Signature: [Signature], Project Name: Characterization of RVAAP 14 AOCs, Project Number: 04-02-0030, Project Location: RVAAP - Ravenna, Ohio, Lab PM: Nancy McDonald

Within Hold Time: Yes No, Preserv. Indicated: Yes No N/A, pH Check OK: Yes No N/A, Res CL2 Check OK: Yes No N/A

Table with columns: Date Required, Hard Copy, Fax/Email, Refrg #, # / Cont., Volume, Preserv.

Sample Labels and COC Agree: Yes No, COC not present

Main data table with columns: Laboratory ID, MS-MSD, Client Sample ID, Sampling Date, Sampling Time, Matrix, Comp/Grab, VOC, SVOC, Explosives, TAL Metals, Nitroglycerin, Pest/PCBs, Nitrate, Cyanide, Additional Analyses / Remarks

Relinquished by: [Signature], Company: MKM Engineers, Date: 11/22/04, Time: 11:30, Received By: [Signature], Company: STL North Canton (Courier), Date: 11/23/04, Time: 09:40

Matrix Key: W - Water, S - Soil, SL - Sludge, SO - Solid, WW - Wastewater, SE - Sediment, L - Leachate, M - Miscellaneous, DL - Drum Liquid, DS - Drum Solid, W - Wipe, A - Air, OL - Oil, O -

Comments: [Signature], Date Received: 11/23/04, Courier: [Signature], Hand Delivered: [Signature], Bill of Lading: [Signature]

rpjsckl	Job Sample Receipt Checklist Report	v2
Job Number.: 232200	Location.: 57222	Check List Number.: 1
Customer Job ID.....:	Job Check List Date.: 11/23/2004	Description.: Date of the Report...: 12/10/2004
Project Number.: 20004694	Project Description.: USACE RVAAP 14 AOCs	Project Manager.....: nsm
Customer.....: MKM Engineers, Inc.	Contact.: Eric Ellis	
Questions ?	(Y/N) Comments	
Chain-of-Custody Present?.....	Y	
Were samples dropped off at or picked up by STL?..	N	
Custody seal on shipping container?.....	Y	
...If "yes", custody seal intact?.....	Y	
Custody seals on sample containers?.....	N	
...If "yes", custody seal intact?.....		
Samples iced?.....	Y	
Temperature of cooler acceptable? (4 deg C +/- 2).	Y	2.7,2.4
Samples received intact (good condition)?.....	Y	
Volatile samples acceptable? (no headspace).....	Y	
Correct containers used?.....	Y	
Adequate sample volume provided?.....	Y	
Samples preserved correctly?.....	Y	
Samples received within holding-time?.....	Y	
Agreement between COC and sample labels?.....	Y	
Radioactivity at or below background levels?.....	Y	
A Sample Discrepancy Report (SDR) was needed?.....	N	
If samples were shipped was there an air bill #?..	Y	
Sample Custodian Signature/Date.....	Y	

**STL Sacramento**  
 880 Riverside Parkway  
 West Sacramento, CA 95605  
 (910) 373-5600  
 Fax: (916) 372-1059

**Report To:**

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengineers.com	PO #:	

**Bill To:**

Contact:	Eric Ellis
Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920
Fax:	330-358-2924
PO #:	
Quote #:	

**Lab Lot #**

Package Sealed	Yes	No	Samples Sealed	Yes	No
Received on Ice	Yes	No	Samples Intact	Yes	No
Temperature C of Cooler					
Within Hold Time					
Preserv. Indicated					
pH Check OK					
Res/CL2 Check OK					
Sample Labels and COC Agree					

Sampler Name:	<i>Eric Ellis</i>
Sampler Signature:	<i>[Signature]</i>
Project Name:	Characterization of RVAAP 14 AOCs
Project Number:	04-02-0030
Project Location:	RVAAP - Ravenna, Ohio
Lab PM:	Nancy McDonald

Date Required	21 Days	Refrig #	
Hard Copy	14 Days	# / Cont.	
Fax/Email		Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	Propellants (Nitroguanidine/Nitrocellulose)	Additional Analyses / Remarks									
		LL5ss-005M-SO	11-19-04	1415	S	C	x										
		L10ss-027M-SO	11-19-04	1200	S	C	x										
		L10ss-027M-DUP	11-19-04	1200	S	C	x										
		LL7ss-036M-QA	11-18-04	1445	S	C	x										
		LL5ss-018M-SO	11-19-04	1509	S	C	x										
		LL7sw-001-SW	11-22-04	1350	W	G	x										

RECEIVED IN GOOD CONDITION  
 UNDER COC  
 NOV 23 2004  
 INT. *[Signature]*

Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:
<i>[Signature]</i>	MKM Engineers	11/22/04	1630		STL North Canton (Courier)		
Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:
	STL North Canton (Courier)				Fed Ex		
Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:
	FedEx			<i>[Signature]</i>	STL-SAC	11-23-04	1310

**Matrix Key**  
 W - Water  
 S - Soil  
 SL - Sludge  
 SO - Solid

WW - Wastewater  
 SE - Sediment  
 L - Leachate  
 M - Miscellaneous

DL - Drum Liquid  
 DS - Drum Solid  
 W - Wipe  
 A Air  
 OL - Oil  
 O \_\_\_\_\_

Comments:	Date Received
	Courier:
	Hand Delivered:
	Bill of Lading:

STL Chicago is part of Severn Trent Laboratories, Inc.



# STL

## LOT RECEIPT CHECKLIST STL Sacramento

CLIENT M/R M PM PH LOG # 29786  
 LOT# (QUANTIMS ID) G4K230379 QUOTE# 60857 LOCATION WZSD

DATE RECEIVED 11-23-04 TIME RECEIVED 730 Initials CU Date 11-23-04

- DELIVERED BY
- FEDEX
  - AIRBORNE
  - UPS
  - STL COURIER
  - OTHER
  - CA OVERNIGHT
  - GOLDENSTATE
  - BAX GLOBAL
  - COURIERS ON DEMAND
  - CLIENT
  - DHL
  - GO-GETTERS

CUSTODY SEAL STATUS  INTACT  BROKEN  N/A  
 CUSTODY SEAL #(S) 612547 612557  
 SHIPPING CONTAINER(S)  STL  CLIENT  N/A  
 TEMPERATURE RECORD (IN °C) IR 1  3  OTHER \_\_\_\_\_  
 COC #(S) N/A  
 TEMPERATURE BLANK 3  
 SAMPLE TEMPERATURE 4

COLLECTOR'S NAME:  Verified from COC  Not on COC

pH MEASURED  YES  ANOMALY  N/A

LABELED BY.....

LABELS CHECKED BY.....

PEER REVIEW  N/A

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING

WETCHEM  N/A

VOA-ENCORES  N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL  N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES  N/A

Clouseau  TEMPERATURE EXCEEDED (2 °C - 6 °C)\*1  N/A

WET ICE  BLUE ICE  GEL PACK  NO COOLING AGENTS USED  PM NOTIFIED

Notes:

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\*1 Acceptable temperature range for State of Wisconsin samples is ≤ 4°C.

**STL Chicago**  
 2417 Bond St.  
 University Park, IL 60466  
 708-534-5200  
 Fax: 708-534-5211

**Report To:**

Contact: **Eric Ellis**  
 Company: **MKM Engineers, Inc.**  
 Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
 Phone: **330-358-2920**  
 Fax: **330-358-2924**  
 Email: **eric.ellis@mkmengeers.com**

**Bill To:**

Contact: **Eric Ellis**  
 Company: **MKM Engineers, Inc.**  
 Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
 Phone: **330-358-2920**  
 Fax: **330-358-2924**  
 PO #:

Lab Lot # **232251**

Package Sealed <input checked="" type="radio"/> Yes <input type="radio"/> No	Samples Sealed <input checked="" type="radio"/> Yes <input type="radio"/> No
Received on Ice <input checked="" type="radio"/> Yes <input type="radio"/> No	Samples Intact <input checked="" type="radio"/> Yes <input type="radio"/> No
Temperature C of Cooler <b>(3.7) (4.1) (4.3) (3.8) (3.2) (3.7)</b>	
Within Hold Time <input checked="" type="radio"/> Yes <input type="radio"/> No	
Preserv. Indicated <input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	
pH Check OK <input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	
Res Cl2 Check OK <input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	
Sample Labels and COC Agree <input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> COC not present	

Sampler Name: **ERIC ELLIS**  
 Sampler Signature: **[Signature]**  
 Project Name: **Characterization of RVAAP 14 AOCs**  
 Project Number: **04-02-0030**  
 Project Location: **RVAAP - Ravenna, Ohio**  
 Lab PM: **Nancy McDonald**

Date Required		Refrig #	
Hard Copy	21 Days	# / Cent.	
Fax/Email	14 Days	Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Cyanide	Additional Analyses / Remarks
1		TRIP BLANK	LAB	LAB	W	G	x								
2		L10sw-011-SW	11-23-04	1005	W	G	x	x	x	x		x		x	
3		L10sw-012-SW	11-23-04	1025	W	G	x	x	x	x		x		x	
4		L10sw-014-SW	11-23-04	0930	W	G	x	x	x	x		x		x	
5		L10sw-015-SW	11-23-04	0846	W	G	x	x	x	x		x		x	
6		L10sw-017-SW	11-23-04	1000	W	G	x	x	x	x		x		x	
7		L10sw-018-SW	11-23-04	1005	W	G	x	x	x	x		x		x	
8		L10sw-020-SW	11-23-04	1045	W	G	x	x	x	x		x		x	
9		L10sw-021-SW	11-23-04	1050	W	G	x	x	x	x		x		x	
10	X	L10sd-012-SD	11-23-04	1040	SE	G				x				x	If too little sample mass, call before extraction

Relinquished by: <b>[Signature]</b>	Company: <b>MKM Engineers</b>	Date: <b>11/23/04</b>	Time: <b>1630</b>	Received By:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <b>[Signature]</b>	Company: <b>SR</b>	Date: <b>11/24/04</b>	Time: <b>0950</b>

**Matrix Key**

W - Water	WW - Wastewater	DL - Drum Liquid	A Air
S - Soil	SE - Sediment	DS - Drum Solid	OL - Oil
SL - Sludge	L - Leachate	W - Wipe	O _____
SO - Solid	M - Miscellaneous		

Comments:

Date Received: **11/24/04**  
 Courier: **EX**  
 Hand Delivered:  
 Bill of Lading: **see attach**

rpjsckl	Job Sample Receipt Checklist Report		V2
Job Number.: 232251	Location.: 57222	Check List Number.: 1	Description.: Date of the Report...: 12/16/2004
Customer Job ID.....:	Job Check List Date.: 11/24/2004		Project Manager.....: nsm
Project Number.: 20004694	Project Description.: USACE RVAAP 14 AOCS		
Customer.....: MKM Engineers, Inc.	Contact.: Eric Ellis		
Questions ?	(Y/N) Comments		
Chain-of-Custody Present?.....	Y		
Were samples dropped off at or picked up by STL?..	N		
Custody seal on shipping container?.....	Y		
...If "yes", custody seal intact?.....	Y		
Custody seals on sample containers?.....	N		
...If "yes", custody seal intact?.....			
Samples iced?.....	Y		
Temperature of cooler acceptable? (4 deg C +/- 2).	Y 3.3,4.1,4.3,3.8,3.2,3.7		
Samples received intact (good condition)?.....	Y		
Volatile samples acceptable? (no headspace).....	Y		
Correct containers used?.....	Y		
Adequate sample volume provided?.....	Y		
Samples preserved correctly?.....	Y		
Samples received within holding-time?.....	Y		
Agreement between COC and sample labels?.....	Y		
Radioactivity at or below background levels?.....	Y		
A Sample Discrepancy Report (SDR) was needed?.....	N		
If samples were shipped was there an air bill #?..	Y		
Sample Custodian Signature/Date.....	Y		

511

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

**Report To:**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
Phone: **330-358-2920**  
Fax: **330-358-2924**  
Email: **eric.ellis@mkmengengineers.com**

**Bill To:**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
Phone: **330-358-2920**  
Fax: **330-358-2924**  
PO #  
Quote #:

Sampler Name:  
Sampler Signature:  
Project Name: **Characterization of RVAAP 14 AOCs**  
Project Number: **04-02-0030**  
Project Location: **RVAAP - Ravenna, Ohio**  
Lab PM: **Nancy McDonald**

Package Sealed: Yes  No   
Samples Sealed: Yes  No   
Received on Ice: Yes  No   
Samples Intact: Yes  No   
Temperature C of Cooler: (2.6) (3.2)

Within Hold Time: Yes  No   
Preserv. Indicated: Yes  No  N/A  
pH Check OK: Yes  No  N/A  
Res CL2 Check OK: Yes  No  N/A

Sample Labels and COC Agree: Yes  No  COC not present

Date Required		Refrg #	
Hard Copy	21 Days	# / ConL	
Fax/Email	14 Days	Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Cyanide	Additional Analyses / Remarks
1		L12mw-244-GW	11-29-04	1120	W	G	x	x	x	x	x	x	x		
2		L12mw-246-GW	11-29-04	0945	W	G	x	x	x	x	x	x	x		
3		L12mw-245-GW	11-29-04	1350	W	G	x	x	x	x	x	x	x		
4		Trip blank			W	G	x								added by STL

Relinquished by: <i>[Signature]</i>	Company: <b>MKM Engineers</b>	Date:	Time:	Received By:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <i>[Signature]</i>	Company: <b>STL</b>	Date: <b>11/30/04</b>	Time: <b>0930</b>

**Matrix Key**

W - Water	WW - Wastewater	DL - Drum Liquid	A - Air
S - Soil	SE - Sediment	DS - Drum Solid	OL - Oil
SL - Sludge	L - Leachate	W - Wipe	O - _____
SO - Solid	M - Miscellaneous		

Comment: *[Signature]*

Date Received: **11/30/04**

Courier: **PK**

Hand Delivered: **see attach**

Bill of Lading: **see attach**



fpjsckl	Job Sample Receipt Checklist Report		V2
Job Number.: 232296	Location.: 57222	Check List Number.: 1	Description.:
Customer Job ID,.....:		Job Check List Date.: 11/30/2004	Date of the Report...: 12/14/2004
Project Number.: 20004694	Project Description.: USACE RVAAP 14 AOCs		Project Manager.....: nsm
Customer.....: MKM Engineers, Inc.		Contact.: Eric Ellis	
Questions ?	(Y/N)	Comments	
Chain-of-Custody Present?.....	Y		
Were samples dropped off at or picked up by STL?..	N		
Custody seal on shipping container?.....	Y		
...If "yes", custody seal intact?.....	Y		
Custody seals on sample containers?.....	N		
...If "yes", custody seal intact?.....			
Samples iced?.....	Y		
Temperature of cooler acceptable? (4 deg C +/- 2).	Y	2.6,3.2	
Samples received intact (good condition)?.....	Y		
Volatile samples acceptable? (no headspace).....	Y		
Correct containers used?.....	Y		
Adequate sample volume provided?.....	Y		
Samples preserved correctly?.....	Y		
Samples received within holding-time?.....	Y		
Agreement between COC and sample labels?.....	Y		
Radioactivity at or below background levels?.....	Y		
A Sample Discrepancy Report (SDR) was needed?.....	N		
If samples were shipped was there an air bill #?..	Y		
Sample Custodian Signature/Date.....	Y		

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

**Report To:**

Contact:	Eric Ellis
Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920
Fax:	330-358-2924
Email:	eric.ellis@mkmengineers.com

**Bill To:**

Contact:	Eric Ellis
Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920
Fax:	330-358-2924
PO #:	
Quote #:	

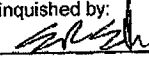
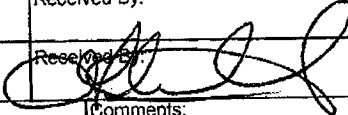
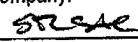
**Lab Lot #**

Package Sealed Yes No	Samples Sealed Yes No
Received on Ice Yes No	Samples Intact Yes No
Temperature C of Cooler	
Within Hold Time Yes No	
Preserv. Indicated Yes No N/A	
pH Check OK Yes No N/A	
Res Cl2 Check OK Yes No N/A	
Sample Labels and COC Agree Yes No COC: not present	

Sampler Name:	
Sampler Signature:	
Project Name:	Characterization of RVAAP 14 AOCs
Project Number:	04-02-0030
Project Location:	RVAAP - Ravenna, Ohio
Lab PM:	Nancy McDonald

Date Required		Refrg #																	
Hard Copy	21 Days	#/Cont																	
Fax/Email	14 Days	Volume																	
		Preserv																	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Cyanide	Additional Analyses / Remarks
		L12mw-244-GW	11-29-04	1120	W	G	x	x	x	x	x	x	x		
		L12mw-246-GW	11-29-04	0945	W	G	x	x	x	x	x	x	x		RECEIVED IN GOOD CONDITION UNDER COC
		L12mw-245-GW	11-29-04	1350	W	G	x	x	x	x	x	x	x		NOV 30 2004

Relinquished by: 	Company: MKM Engineers	Date:	Time:	Received By:	Company: STL North Canton (Courier)	Date:	Time:
Relinquished by:	Company: STL North Canton (Courier)	Date:	Time:	Received By:	Company: Fed Ex	Date:	Time:
Relinquished by:	Company: FedEx	Date:	Time:	Received By: 	Company: 	Date: 11/26/04	Time: 0900
<b>Matrix Key</b> W - Water S - Soil SL - Sludge SO - Solid	WW - Wastewater SE - Sediment L - Leachate M - Miscellaneous	DL - Drum Liquid DS - Drum Solid W - Wipe	A Air OL - Oil O _____	Comments:		Date Received	
						Courier:	
						Hand Delivered:	
						Bill of Lading:	

**Hrabak, Robert**

---

**From:** Eric Ellis [eric.ellis@mkmengineers.com]  
**Sent:** Wednesday, December 01, 2004 10:30 AM  
**To:** Hrabak, Robert; McDonald, Nancy  
**Subject:** CoC Corrections (11-29-04 CoCs)

Robert/Nancy,  
Robert, thanks for the call regarding the incorrect CoC included with your samples received yesterday. The Chicago CoC was mistakenly included in the Sacramento cooler. I am attaching the correct CoCs for each set of coolers. Please replace the CoC sent on 11/29/03 (rec'd 11/30/04) with the ones attached. Thanks and please let me know if you have any questions. Sorry about that, must have been that extended weekend☺.

**Eric R. Ellis**  
*Project Engineer*  
MKM Engineers, Inc.  
Phone : 330-358-2920  
Cell: 330-352-9234  
Fax : 330-358-2924  
eric.ellis@mkmengineers.com  
www.mkmengineers.com

**NOTICE OF CONFIDENTIALITY**

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STL Sacramento  
 860 Riverside Parkway  
 West Sacramento, CA 95605  
 (916) 373-5600  
 Fax: (916) 372-1059

Report To:		Bill To:	
Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44269	Address:	8451 State Route 5 Ravenna, OH 44269
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengeers.com	PO #:	
Quote #:			

Sampler Name: **ERIC ELLIS**  
 Sampler Signature: *[Signature]*  
 Project Name: **Characterization of RVAAP 14 AOCs**  
 Project Number: **04-02-0030**  
 Project Location: **RVAAP - Ravenna, Ohio**  
 Lab PM: **Nancy McDonald**

**Lab Lot #**

Package Sealed	Yes	No	Samples Sealed	Yes	No
Received on Ice	Yes	No	Samples Intact	Yes	No
Temperature C of Cooler					
Within Hold Time					
Preserv. Indicated					
pH Check OK					
Res. GLZ Check OK					
Sample Labels and COC Agree					

Date Required		Refrig #	
Hard Copy	21 Days	#/Cont.	
Fax/Email	14 Days	Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	Propellants (Nitrogen/diesel)	Nitrocellulose	Additional Analyses / Remarks														
		L12mw-244-GW	11-29-04	1120	W	G	X																
		L12mw-246-GW	11-29-04	0945	W	G	X																
		L12mw-245-GW	11-29-04	1350	W	G	X																

Relinquished by: <i>[Signature]</i>	Company: <b>MKM Engineers</b>	Date: <b>11/29/04</b>	Time: <b>1630</b>	Received By:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By:	Company:	Date:	Time:

**Matrix Key**  
 W - Water DL - Drum Liquid A - Air  
 S - Soil SE - Sediment DS - Drum Solid OL - Oil  
 SL - Sludge L - Leachate W - Wipe O -  
 SO - Solid M - Miscellaneous

Comments:

Date Received
Courier
Hand Delivered
Bill of Lading



# STL

## LOT RECEIPT CHECKLIST STL Sacramento

CLIENT Sacramento PM PH LOG # 29825LOT# (QUANTIMS ID) 214300238 QUOTE# 60257 LOCATION W9DDATE RECEIVED 11-30-04 TIME RECEIVED 0915Initials Ge Date 11-30-04
 DELIVERED BY
 

<input checked="" type="checkbox"/> FEDEX	<input type="checkbox"/> CA OVERNIGHT	<input type="checkbox"/> CLIENT
<input type="checkbox"/> AIRBORNE	<input type="checkbox"/> GOLDENSTATE	<input type="checkbox"/> DHL
<input type="checkbox"/> UPS	<input type="checkbox"/> BAX GLOBAL	<input type="checkbox"/> GO-GETTERS
<input type="checkbox"/> STL COURIER	<input type="checkbox"/> COURIERS ON DEMAND	
<input type="checkbox"/> OTHER		

CUSTODY SEAL STATUS  INTACT  BROKEN  N/ACUSTODY SEAL #(S) 612917 612907SHIPPING CONTAINER(S)  STL  CLIENT  N/ATEMPERTURE RECORD (IN °C) IR 1  3  OTHERCOC #(S) N/ATEMPERATURE BLANK 2°CSAMPLE TEMPERATURE 2°CCOLLECTOR'S NAME:  Verified from COC.  Not on COCPH MEASURED  YES  ANOMALY  N/A

LABELED BY.....

LABELS CHECKED BY.....

PEER REVIEW N/A

SHORT HOLD TEST NOTIFICATION

 SAMPLE RECEIVING  
 WETCHEM  N/A  
 VOA-ENCORES  N/A
 METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL  N/A COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES  N/A Clouseau  TEMPERATURE EXCEEDED (2 °C – 6 °C)\*1  N/A WET ICE  BLUE ICE  GEL PACK  NO COOLING AGENTS USED  PM NOTIFIEDNotes: \_\_\_\_\_  
\_\_\_\_\_

\*1 Acceptable temperature range for State of Wisconsin samples is ≤ 4°C.

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

**Report To:**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5  
Ravenna, OH 44266**  
Phone: **330-358-2920**  
Fax: **330-358-2924**  
Email: **eric.ellis@mkmengeers.com**

**Bill To:**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5  
Ravenna, OH 44266**  
Phone: **330-358-2920**  
Fax: **330-358-2924**  
PO #:  
Quote #:

Lab Lot # **232332**

Package Sealed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Sealed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Received on Ice <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Temperature C of Cooler <b>(2.9) (3.3) (2.9) (2.5)</b>	

Sampler Name:  
Sampler Signature:  
Project Name: **Characterization of RVAAP 14 AOCs**  
Project Number: **04-02-0030**  
Project Location: **RVAAP - Ravenna, Ohio**  
Lab PM: **Nancy McDonald**

Within Hold Time <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Pressure Indicated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
pH Check OK <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Res GL2 Check OK <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Sample Labels and COC Areas <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> COC not present

Date Required	21 Days	Refr #	
Hard Copy	14 Days	# of Cont.	
Fax/Email		Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	CR +6	Additional Analyses / Remarks
1		L12mw-242-GW	11-30-04	0930	W	G	x	x	x	x	x	x	x		
2		L12mw-242-DUP	11-30-04	0930	W	G	x	x	x	x	x	x	x		
1	X	L12mw-242-MS/MSD	11-30-04	0930	W	G	x	x	x	x	x	x	x		
3		ASYmw-002-GW	11-30-04	1350	W	G	x	x	x	x	x	x	x	x	
4		ASYmw-001-GW	11-30-04	1450	W	G	x	x	x	x	x	x	x	x	
5		<b>Trip Blank</b>													<b>added by STL</b>

Relinquished by: <i>[Signature]</i>	Company: <b>MKM Engineers</b>	Date: <b>11/30/04</b>	Time: <b>1630</b>	Received By:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <i>[Signature]</i>	Company: <b>SA</b>	Date: <b>12/1/04</b>	Time: <b>1010</b>

**Matrix Key**  
W - Water  
S - Soil  
SL - Sludge  
SO - Solid  
WW - Wastewater  
SE - Sediment  
L - Leachate  
M - Miscellaneous  
DL - Drum Liquid  
DS - Drum Solid  
W - Wipe  
A - Air  
OL - Oil  
O - \_\_\_\_\_

Comments: *[Signature]*  
Date Received: **12-1-04**  
Courier: **FX**  
Hand Delivered:  
Bill of Lading: **see attach**

12

rpjsckl	Job Sample Receipt Checklist Report	V2
Job Number.: 232332	Location.: 57222	Check List Number.: 1
Customer Job ID.....:	Job Check List Date.: 12/01/2004	Description.: Date of the Report.: 12/15/2004
Project Number.: 20004694	Project Description.: USACE RVAAP 14 AOCS	Project Manager.....: nsm
Customer.....: MKM Engineers, Inc.	Contact.: Eric Ellis	
Questions ?	(Y/N) Comments	
Chain-of-Custody Present?.....	Y	
Were samples dropped off at or picked up by STL?..	N	
Custody seal on shipping container?.....	Y	
...If "yes", custody seal intact?.....	Y	
Custody seals on sample containers?.....	N	
...If "yes", custody seal intact?.....		
Samples iced?.....	Y	
Temperature of cooler acceptable? (4 deg C +/- 2).	Y	2.9,3.3,2.4,2.5
Samples received intact (good condition)?.....	Y	
Volatile samples acceptable? (no headspace).....	Y	
Correct containers used?.....	Y	
Adequate sample volume provided?.....	Y	
Samples preserved correctly?.....	Y	
Samples received within holding-time?.....	Y	
Agreement between CDC and sample labels?.....	Y	
Radioactivity at or below background levels?.....	Y	
A Sample Discrepancy Report (SDR) was needed?.....	Y	See Job Note
If samples were shipped was there an air bill #?..	Y	
Sample Custodian Signature/Date.....	Y	



STL Sacramento  
 880 Riverside Parkway  
 West Sacramento, CA 95605  
 (910) 373-5800  
 Fax: (916) 372-1059

Report To:

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkengineers.com	PO #:	

Lab Lot #

Package Sealed	Yes	No	Samples Sealed	Yes	No
Received on Ice	Yes	No	Samples Intact	Yes	No
Temperature C of Cooler:					
Within Hold Time	Yes	No			
Preserv. Indicated	Yes	No	N/A		
pH Check OK	Yes	No	N/A		
Res CL2 Check OK	Yes	No	N/A		
Sample Labels and COC Agree	Yes	No	COC not present		

Sampler Name:	
Sampler Signature:	
Project Name:	Characterization of RVAAP 14 AOCs
Project Number:	04-02-0030
Project Location:	RVAAP - Ravenna, Ohio
Lab PM:	Robert Hbarak

Date Required	21 Days	Refrg #	
Hard Copy	14 Days	# / Cont.	
Fax/Email		Volume	
		Preserv	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	Propellants (Nitroguanidine/Nitrocellulose)													
		L12mw-242-GW	11-30-04	0930	W	G	X													
		L12mw-242-DUP	11-30-04	0930	W	G	X													
	X	L12mw-242-MS/MSD	11-30-04	0930	W	G	X													
		ASYmw-002-GW	11-30-04	1350	W	G	X													
		ASYmw-001-GW	11-30-04	1450	W	G	X													

Additional Analyses / Remarks

RECEIVED IN GOOD CONDITION UNDER COC

DEC - 1 2004

INI: *be*

Relinquished by:	Company: MKM Engineers	Date: 11/30/04	Time: 1630	Received By:	Company: STL North Canton (Courier)	Date:	Time:
Relinquished by:	Company: STL North Canton (Courier)	Date:	Time:	Received By:	Company: Fed Ex	Date:	Time:
Relinquished by:	Company: FedEx	Date:	Time:	Received By:	Company: STL SAC	Date: 12-1-04	Time: 1200

**Matrix Key**  
 W - Water  
 S - Soil  
 SL - Sludge  
 SO - Solid  
 WW - Wastewater  
 SE - Sediment  
 L - Leachate  
 M - Miscellaneous  
 DL - Drum Liquid  
 DS - Drum Solid  
 W - Wipe  
 A Air  
 OL - Oil  
 O \_\_\_\_\_

Comments:	Date Received
	Courier:
	Hand Delivered:
	Bill of Lading:





# STL

## LOT RECEIPT CHECKLIST STL Sacramento

CLIENT STL-CHICAGO PM 24 LOG # 29940

LOT# (QUANTIMS ID) GUL010252 QUOTE# 60857 LOCATION W7A

		Initials	Date
		Ge	12-1-04
DATE RECEIVED	<u>12-1-04</u>		
TIME RECEIVED	<u>0915</u>		
DELIVERED BY	<input checked="" type="checkbox"/> FEDEX <input type="checkbox"/> CA OVERNIGHT <input type="checkbox"/> CLIENT <input type="checkbox"/> AIRBORNE <input type="checkbox"/> GOLDENSTATE <input type="checkbox"/> DHL <input type="checkbox"/> UPS <input type="checkbox"/> BAX GLOBAL <input type="checkbox"/> GO-GETTERS <input type="checkbox"/> STL COURIER <input type="checkbox"/> COURIERS ON DEMAND <input type="checkbox"/> OTHER		
CUSTODY SEAL STATUS	<input checked="" type="checkbox"/> INTACT <input type="checkbox"/> BROKEN <input type="checkbox"/> N/A		
CUSTODY SEAL #(S)	<u>612987 612967</u>		
SHIPPING CONTAINER(S)	<input type="checkbox"/> STL <input checked="" type="checkbox"/> CLIENT <input type="checkbox"/> N/A		
TEMPERATURE RECORD (IN °C)	IR    1 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> <input type="checkbox"/> OTHER		
COC #(S)	<u>N/A</u>		
TEMPERATURE BLANK	<u>2°C</u>		
SAMPLE TEMPERATURE	<u>3°C</u>		
COLLECTOR'S NAME:	<input type="checkbox"/> Verified from COC <input checked="" type="checkbox"/> Not on COC		
pH MEASURED	<input type="checkbox"/> YES <input type="checkbox"/> ANOMALY <input checked="" type="checkbox"/> N/A		
LABELED BY.....			
LABELS CHECKED BY.....			
PEER REVIEW	<input checked="" type="checkbox"/> N/A		
SHORT HOLD TEST NOTIFICATION			
	SAMPLE RECEIVING		
	WETCHEM <input checked="" type="checkbox"/> N/A		
	VOA-ENCORES <input checked="" type="checkbox"/> N/A		
<input type="checkbox"/> METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL	<input checked="" type="checkbox"/> N/A		
<input checked="" type="checkbox"/> COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES	<input type="checkbox"/> N/A		
<input type="checkbox"/> Clouseau	<input type="checkbox"/> TEMPERATURE EXCEEDED (2 °C - 6 °C)** <input checked="" type="checkbox"/> N/A		
<input type="checkbox"/> WET ICE	<input type="checkbox"/> BLUE ICE <input type="checkbox"/> GEL PACK <input type="checkbox"/> NO COOLING AGENTS USED		<input type="checkbox"/> PM NOTIFIED

Notes: \_\_\_\_\_

\*1 Acceptable temperature range for State of Wisconsin samples is ≤4°C.

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

**Report To:**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
Phone: **330-358-2920**  
Fax: **330-358-2924**  
Email: **eric.ellis@mkmengeers.com**

**Bill To:**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
Phone: **330-358-2920**  
Fax: **330-358-2924**  
PO #:  
Quote #:

Lab Lot # **232364**

19

Sampler Name: **ERIC ELLIS**  
Sampler Signature: *[Signature]*  
Project Name: **Characterization of RVAAP 14 AOCs**  
Project Number: **04-02-0030**  
Project Location: **RVAAP - Ravenna, Ohio**  
Lab PM: **Nancy McDonald**

Package Sealed: Yes  No   
Samples Sealed: Yes  No   
Received on Ice: Yes  No   
Samples Intact: Yes  No   
Temperature C of Cooler: **(3.2) (4.1) (5.5) (3.2) (4.1) (3.7) (3.1) (2.8) (2.7)**  
Within Hold Time: Yes  No   
Presery indicated: Yes  No  N/A  
pH Check OK: Yes  No  N/A  
Res GL2 Check OK: Yes  No  N/A

Date Required		Refr #																
Hard Copy	21 Days	#/Cont																
Fax/Email	14 Days	Volume																
		Priority																

Sample Labels and COC Agree: Yes  No  COC not present

Laboratory ID	MS/MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitrolycerin	Pest/PCBs	Nitrate	Cr+6	Cyanide	Additional Analyses / Remarks
1		NTAmw-118-GW	12-01-04	0930	W	G	x	x	x	x	x	x				
2		NTAmw-118-DUP	12-01-04	0930	W	G	x	x	x	x	x	x				
1	X	NTAmw-118-MS/MSD	12-01-04	0930	W	G	x	x	x	x	x	x				
3		L12mw-243-GW	11-29-04	1455	W	G	x	x	x	x	x	x	x			
4		L10sw-024-SW	11-30-04	1540	W	G	x	x	x	x		x			x	
5		L10sw-022-SW	11-30-04	1415	W	G	x	x	x	x		x			x	
6		L10sd-024-SD	11-30-04	1555	SE	G			x	x					x	
7		L10sd-022-SD	11-30-04	1435	SE	G	x	x	x	x					x	
8		TRIP BLANK	LAB	LAB	W	G	x									
9		ASYmw-003-GW	12-01-04	1330	W	G	x	x	x	x	x	x				Cr+6 - Watch hold time!
10		ASYmw-003-DUP	12-01-04	1330	W	G	x	x	x	x	x	x				Cr+6 - Watch hold time!
9	X	ASYmw-003-MS/MSD	12-01-04	1330	W	G	x	x	x	x	x	x				Cr+6 - Watch hold time!

Relinquished by: <i>[Signature]</i>	Company: <b>MKM Engineers</b>	Date: <b>12/1/04</b>	Time: <b>1630</b>	Received By: <b>STL North Canton (Courier)</b>	Company: <b>STL North Canton (Courier)</b>	Date: _____	Time: _____
Relinquished by: _____	Company: <b>STL North Canton (Courier)</b>	Date: _____	Time: _____	Received By: <b>Fed Ex</b>	Company: <b>Fed Ex</b>	Date: _____	Time: _____
Relinquished by: _____	Company: <b>FedEx</b>	Date: _____	Time: _____	Received By: <i>[Signature]</i>	Company: <b>STL</b>	Date: <b>12/2/04 0945</b>	Time: _____

**Matrix Key**

W - Water	VW - Wastewater	DL - Drum Liquid	A - Air
S - Soil	SE - Sediment	DS - Drum Solid	OL - Oil
SL - Sludge	L - Leachate	W - Wipe	O - _____
SO - Solid	M - Miscellaneous		

Comments: \_\_\_\_\_

Date Received: **12-2-04**

Courier: **FX**

Hand Delivered: \_\_\_\_\_

Bill of Lading: **see attach**

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

**Report To:**

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengineers.com	PO #:	
		Quote #:	

Lab Lot # **232364**

Package Sealed	Yes	No	Samples Sealed	Yes	No
Received on ice	Yes	No	Samples Intact	Yes	No
Temperature C of Cooler					

Sampler Name: ERIC ELLIS  
 Sampler Signature: [Signature]  
 Project Name: **Characterization of RVAAP 14 AOCs**  
 Project Number: **04-02-0030**  
 Project Location: **RVAAP - Ravenna, Ohio**  
 Lab PM: **Nancy McDonald**

Within Hold Time	Yes	No	
Preserv. Indicated	Yes	No	N/A
pH Check OK	Yes	No	N/A
Res CL2 Check OK	Yes	No	N/A
Sample Labels and COC Agree	Yes	No	COC not present

Date Required	21 Days	Refig #	
Hard Copy	14 Days	# / Cont.	
Fax/Email		Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Cyanide	Additional Analyses / Remarks
11		L10sw-019-SW	12-01-04	1325	W	G	x	x	x	x		x		x	
12		L10sw-019-DUP	12-01-04	1325	W	G	x	x	x	x		x		x	
13		L10sw-018-SW	12-01-04	1455	W	G	x	x	x	x	x	x		x	

Relinquished by: <u>[Signature]</u>	Company: <b>MKM Engineers</b>	Date: <u>12/1/04</u>	Time: <u>1030</u>	Received By:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <u>[Signature]</u>	Company: <u>SR</u>	Date: <u>12-04</u>	Time: <u>0915</u>

**Matrix Key**  
 W - Water  
 S - Soil  
 SL - Sludge  
 SO - Solid

WW - Wastewater  
 SE - Sediment  
 L - Leachate  
 M - Miscellaneous

DL - Drum Liquid  
 DS - Drum Solid  
 W - Wipe

A - Air  
 OL - Oil  
 O - \_\_\_\_\_

Comments: \_\_\_\_\_

Date Received: 12-04  
 Courier: FX  
 Hand Delivered:  
 Bill of Lading: see attached

20

rpjsckl	Job Sample Receipt Checklist Report	V2
Job Number.: 232364	Location.: 57222	Check List Number.: 1
Customer Job ID.....:	Job Check List Date.: 12/02/2004	Description.: Date of the Report...: 12/27/2004
Project Number.: 20004694	Project Description.: USACE RVAAP 14 AOCS	Project Manager.....: nsm
Customer.....: MKM Engineers, Inc.	Contact.: Eric Ellis	
Questions ?	(Y/N) Comments	
Chain-of-Custody Present?.....	Y	
Were samples dropped off at or picked up by STL?..	N	
Custody seal on shipping container?.....	Y	
...If "yes", custody seal intact?.....	Y	
Custody seals on sample containers?.....	N	
...If "yes", custody seal intact?.....		
Samples iced?.....	Y	
Temperature of cooler acceptable? (4 deg C +/- 2).	Y	2.7-4.1
Samples received intact (good condition)?.....	Y	
Volatile samples acceptable? (no headspace).....	Y	
Correct containers used?.....	Y	
Adequate sample volume provided?.....	Y	
Samples preserved correctly?.....	Y	
Samples received within holding-time?.....	Y	
Agreement between CDC and sample labels?.....	Y	
Radioactivity at or below background levels?.....	Y	
A Sample Discrepancy Report (SDR) was needed?.....	N	
If samples were shipped was there an air bill #?..	Y	
Sample Custodian Signature/Date.....	Y	



**STL Sacramento**  
 880 Riverside Parkway  
 West Sacramento, CA 95605  
 (910) 373-5600  
 Fax. (916) 372-1059

**Report To:**

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengeers.com	PO #:	

**Bill To:**

Contact:	Eric Ellis
Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920
Fax:	330-358-2924
PO #:	
Quote #:	

**Lab Lot #**

Package Sealed Yes No	Samples Sealed Yes No
Received on Ice Yes No	Samples Intact Yes No
Temperature C of Cooler	
Within Hold Time Yes No	
Preserv. Indicated Yes No N/A	
pH Check OK Yes No N/A	
Res-CL2 Check OK Yes No N/A	
Sample Labels and COC Agree Yes No COC not present	

Sampler Name:	ERIC ELLIS
Sampler Signature:	<i>[Signature]</i>
Project Name:	Characterization of RVAAP 14 AOCs
Project Number:	04-02-0030
Project Location:	RVAAP - Ravenna, Ohio
Lab PM:	Robert Hbarak

Date Required		Refrg #	
Hard Copy	21 Days	# / Cont.	
Fax/Email	14 Days	Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	Propellants (Nitroguanidine/Nitrocellulose)	Additional Analyses / Remarks
		L12mw-243-GW	11-29-04	1455	W	G	x	
		NTAmw-116-GW	12-01-04	0930	W	G	x	
		NTAmw-116-DUP	12-01-04	0930	W	G	x	
	X	NTAmw-116-MS/MSD	12-01-04	0930	W	G	x	
		ASYmw-003-GW	12-01-04	1330	W	G	x	
		ASYmw-003-DUP	12-01-04	1330	W	G	x	
	X	ASYmw-003-MS/MSD	12-01-04	1330	W	G	x	
		L10sw-016-SW	12-01-04	1455	W	G	x	

RECEIVED IN GOOD CONDITION UNDER COC  
 DEC - 2 2004  
*[Signature]*

Relinquished by:	Company: MKM Engineers	Date: 12/1/04	Time: 1630	Received By:	Company: STL North Canton (Courier)	Date:	Time:
Relinquished by:	Company: STL North Canton (Courier)	Date:	Time:	Received By:	Company: Fed Ex	Date:	Time:
Relinquished by:	Company: FedEx	Date:	Time:	Received By:	Company: STSAC	Date: 12-2-04	Time: 1005

**Matrix Key**  
 W - Water      WW - Wastewater      DL - Drum Liquid      A Air  
 S - Soil        SE - Sediment        DS - Drum Solid      OL - Oil  
 SL - Sludge    L - Leachate        W - Wipe              O \_\_\_\_\_  
 SO - Solid      M - Miscellaneous

Comments:	Date Received
	Courier:
	Hand Delivered:
	Bill of Lading:



STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

<b>Report To:</b>		<b>Bill To:</b>	
Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengeers.com	PO #:	
		Quote #:	

Lab Lot # 232409

15

Sampler Name:	<u>ERIC ELLIS</u>
Sampler Signature:	<u>[Signature]</u>
Project Name:	Characterization of RVAAP 14 AOCs
Project Number:	04-02-0030
Project Location:	RVAAP - Ravenna, Ohio
Lab PM:	Nancy McDonald

Package Sealed	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Samples Sealed	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Received on Ice	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Samples Intact	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Temperature C of Cooler <u>(2.4) (2.7) (3.4) (2.9) (3.1) (3A) (4.0) (2.7)</u>			
Within Hold Time			
Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
Preserv. Indicated			
Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>			
pH Check OK			
Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>			
Res CL2 Check OK			
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>			
Sample Labels and COC Agree			
Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> COC not present <input type="checkbox"/>			

Date Required		Refr #	
Hard Copy	21 Days	# / Cont.	
Fax/Email	14 Days	Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Cr+6	Additional Analyses / Remarks
1		NTAmw-114-GW	12-02-04	0920	W	G	x	x	x	x	x	x			
2		NTAmw-114-DUP	12-02-04	0920	W	G	x	x	x	x	x	x			
3	x	NTAmw-114-MS/MSD	12-02-04	0920	W	G	x	x	x	x	x	x		x	Cr+6 - Watch Hold Time!
4		ASYmw-009-ER	12-02-04	1410	W	G	x	x	x	x	x	x			
5		NTAmw-115-GW	12-02-04	1120	W	G	x	x	x	x	x	x		x	Cr+6 - Watch Hold Time!
6		ASYmw-010-GW	12-02-04	1345	W	G	x	x	x	x	x	x		x	Cr+6 - Watch Hold Time!
7		ASYmw-009-GW	12-02-04	1450	W	G	x	x	x	x	x	x		x	
8		LL7sw-008-SW	12-02-04	1515	W	G	x	x	x	x	x	x			
9		LL7sw-009-SW	12-02-04	1450	W	G	x	x	x	x	x	x			
10		LL7sw-003-SW	12-02-04	1315	W	G	x	x	x	x	x	x			
10		LL7sw-003-DUP	12-02-04	1315	W	G	x	x	x	x	x	x			
9	x	LL7sw-003-MS/MSD	12-02-04	1315	W	G	x	x	x	x	x	x			

Relinquished by:	Company: MKM Engineers	Date: 12/2/04	Time: 1630	Received By:	Company: STL North Canton (Courier)	Date:	Time:
Relinquished by:	Company: STL North Canton (Courier)	Date:	Time:	Received By:	Company: Fed Ex	Date:	Time:
Relinquished by:	Company: FedEx	Date:	Time:	Received By:	Company: [Signature]	Date: 12/3/04	Time: 1000

<b>Matrix Key</b>	WW - Wastewater	DL - Drum Liquid	A Air
W - Water	SE - Sediment	DS - Drum Solid	OL - Oil
S - Soil	L - Leachate	W - Wipe	O _____
SL - Sludge	M - Miscellaneous		
SO - Solid			

Date Received	12-3-04
Courier:	FE
Hand Delivered:	
Bill of Lading:	see attach

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

**Report To:**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
Phone: **330-358-2920**  
Fax: **330-358-2924**  
Email: **eric.ellis@mkmenengineers.com**

**Bill To:**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
Phone: **330-358-2920**  
Fax: **330-358-2924**  
PO #:  
Quote #:

Sampler Name: **ERIC ELLIS**  
Sampler Signature: *[Signature]*  
Project Name: **Characterization of RVAAP 14 AOCs**  
Project Number: **04-02-0030**  
Project Location: **RVAAP - Ravenna, Ohio**  
Lab PM: **Nancy McDonald**

Package Sealed Yes No	Samples Sealed Yes No
Received on Ice Yes No	Samples Intact Yes No
Temperature C of Cooler	
Within Hold Time Yes No	
Preserv. Indicated Yes No N/A	
pH Check OK Yes No N/A	
Res CL2 Check OK Yes No N/A	
Sample Labels and COC Agree Yes No COC not present	

Date Required	21 Days	Refrig #	
Hard Copy	14 Days	# / Cont.	
Fax/Email		Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling		Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Cyanide	Additional Analyses / Remarks
			Date	Time											
11		TRIP BLANK	Lab	Lab	W	G	X								

Relinquished by: <i>[Signature]</i>	Company: <b>MKM Engineers</b>	Date: <b>2/2/04</b>	Time: <b>1630</b>	Received By: <b>STL North Canton (Courier)</b>	Company: <b>STL North Canton (Courier)</b>	Date: _____	Time: _____
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date: _____	Time: _____	Received By:	Company: <b>Fed Ex</b>	Date: _____	Time: _____
Relinquished by:	Company: <b>FedEx</b>	Date: _____	Time: _____	Received By: <i>[Signature]</i>	Company: <b>STL</b>	Date: <b>12-3-04</b>	Time: <b>1000</b>

<b>Matrix Key</b> W - Water S - Soil SL - Sludge SO - Solid WW - Wastewater SE - Sediment L - Leachate M - Miscellaneous DL - Drum Liquid DS - Drum Solid W - Wipe A - Air OL - Oil O - _____	Date Received: <b>12-3-04</b> Courier: <b>PK</b> Hand Delivered: Bill of Lading: <b>see attach</b>
---	---



rpjsckl	Job Sample Receipt Checklist Report		V2
Job Number.: 232409	Location.: 57222	Check List Number.: 1	Description.:
Customer Job ID.....:		Job Check List Date.: 12/03/2004	Date of the Report...: 12/27/2004
Project Number.: 20004694	Project Description.: USACE RVAAP 14 AOCs		Project Manager.....: nsm
Customer.....: MKM Engineers, Inc.		Contact.: Eric Ellis	
Questions ?	(Y/N) Comments		
Chain-of-Custody Present?.....	Y		
Were samples dropped off at or picked up by STL?..	N		
Custody seal on shipping container?.....	Y		
...If "yes", custody seal intact?.....	Y		
Custody seals on sample containers?.....	N		
...If "yes", custody seal intact?.....			
Samples iced?.....	Y		
Temperature of cooler acceptable? (4 deg C +/- 2).	Y	2.4-4.0	
Samples received intact (good condition)?.....	Y		
Volatile samples acceptable? (no headspace).....	Y		
Correct containers used?.....	Y		
Adequate sample volume provided?.....	Y		
Samples preserved correctly?.....	Y		
Samples received within holding-time?.....	Y		
Agreement between COC and sample labels?.....	Y		
Radioactivity at or below background levels?.....	Y		
A Sample Discrepancy Report (SDR) was needed?.....	N		
If samples were shipped was there an air bill #?..	Y		
Sample Custodian Signature/Date.....	Y		



**STL Sacramento**  
 880 Riverside Parkway  
 West Sacramento, CA 95605  
 (910) 373-5600  
 Fax: (916) 372-1059

**Report To:**

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengengineers.com	PO #:	
		Quote #:	

Sampler Name: ERIC ELLIS  
 Sampler Signature: [Signature]  
 Project Name: **Characterization of RVAAP 14 AOCs**  
 Project Number: **04-02-0030**  
 Project Location: **RVAAP - Ravenna, Ohio**  
 Lab PM: **Robert Hbarak**

**Bill To:**

Contact:	Eric Ellis
Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920
Fax:	330-358-2924
PO #:	
Quote #:	

**Lab Lot #**

Package Sealed Yes No	Samples Sealed Yes No
Received on Ice Yes No	Samples Intact Yes No
Temperature C of Cooler	
Within Hold Time Yes No	
Preserv. Indicated Yes No N/A	
pH Check OK Yes No N/A	
Res CL2 Check OK Yes No N/A	
Sample Labels and COC Agree Yes No COC not present	

Date Required	21 Days	Refr #	
Hard Copy	14 Days	# / Cont.	
Fax/Email		Volume	
		Preserv.	

STL-Sacramento (916) 373-5600

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	Propellants (Nitroguanidine/Nitrocellulose)	Additional Analyses / Remarks									
		NTAmw-114-GW	12-02-04	0920	W	G	x										
		NTAmw-114-DUP	12-02-04	0920	W	G	x										
	x	NTAmw-114-MS/MSD	12-02-04	0920	W	G	x										
		ASYmw-009-ER	12-02-04	1410	W	G	x										
		NTAmw-115-GW	12-02-04	1120	W	G	x										
		ASYmw-010-GW	12-02-04	1345	W	G	x										
		ASYmw-009-GW	12-02-04	1450	W	G	x										
		LL7sw-008-SW	12-02-04	1515	W	G	x										
		LL7sw-009-SW	12-02-04	1450	W	G	x										
		LL7sw-003-SW	12-02-04	1315	W	G	x										
		LL7sw-003-DUP	12-02-04	1315	W	G	x										
	x	LL7sw-003-MS/MSD	12-02-04	1315	W	G	x										

RECEIVED IN GOOD CONDITION UNDER COC  
 DEC - 3 2004  
 [Signature]

Relinquished by: <u>[Signature]</u>	Company: <b>MKM Engineers</b>	Date: <u>12/2/04</u>	Time: <u>1630</u>	Received By:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <u>[Signature]</u>	Company: <b>STL-SAC</b>	Date: <u>12/30/04</u>	Time: <u>1255</u>

**Matrix Key**  
 W - Water  
 S - Soil  
 SL - Sludge  
 SO - Solid  
 WW - Wastewater  
 SE - Sediment  
 L - Leachate  
 M - Miscellaneous  
 DL - Drum Liquid  
 DS - Drum Solid  
 W - Wipe  
 A - Air  
 OL - Oil  
 O - \_\_\_\_\_

Comments:

Date Received
Courier:
Hand Delivered:
Bill of Lading:



# STL

### LOT RECEIPT CHECKLIST STL Sacramento

CLIENT MCM Engineering PM RH LOG # 29880

LOT# (QUANTIMS ID) G4L030390 QUOTE# 60857 LOCATION W23A

DATE RECEIVED 12304 TIME RECEIVED 12:55<sup>915</sup> Initials CV Date 12-3-04

- DELIVERED BY
- FEDEX
  - AIRBORNE
  - UPS
  - STL COURIER
  - OTHER
  - CA OVERNIGHT
  - GOLDENSTATE
  - BAX GLOBAL
  - COURIERS ON DEMAND
  - CLIENT
  - DHL
  - GO-GETTERS

CUSTODY SEAL STATUS  INTACT  BROKEN  N/A  
CUSTODY SEAL #(S) 614393

SHIPPING CONTAINER(S)  STL  CLIENT  N/A  
TEMPERATURE RECORD (IN °C) IR 1  3  OTHER

COC #(S) N/A  
TEMPERATURE BLANK N/A  
SAMPLE TEMPERATURE 5, 3

COLLECTOR'S NAME:  Verified from COC  Not on COC

pH MEASURED  YES  ANOMALY  N/A

LABELED BY.....

LABELS CHECKED BY.....  
PEER REVIEW  N/A

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING

- WETCHEM  N/A
- VOA-ENCORES  N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL  N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES  N/A

Clouseau  TEMPERATURE EXCEEDED (2 °C - 6 °C)\*  N/A

WET ICE  BLUE ICE  GEL PACK  NO COOLING AGENTS USED  PM NOTIFIED

Notes: \_\_\_\_\_

\*1 Acceptable temperature range for State of Wisconsin samples is ≤4°C.

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

**Report To:**

**Bill To:**

232478

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengeers.com	PO #:	

Lab Lot # 232478

Package Sealed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Sealed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Received on Ice <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Temperature C of Cooler <u>3.3, 2.9, 3.2, 3.5</u>	
Within Hold Time <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Respirators Indicated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
pH Check OK <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Res O2 Check OK <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Sample Labels and COC Agree <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> COC not present	

Sampler Name: ERIC ELLIS  
 Sampler Signature: [Signature]  
 Project Name: **Characterization of RVAAP 14 AOCs**  
 Project Number: **04-02-0030**  
 Project Location: **RVAAP - Ravenna, Ohio**  
 Lab PM: **Nancy McDonald**

Date Required		Refrig #	
Hard Copy	21 Days	# / Cont.	
Fax/Email	14 Days	Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Cr+6	Additional Analyses / Remarks
1		B12ss-020M-SO	12-01-04	0930	S	C			X	X					
2		B12ss-019M-SO	12-01-04	0845	S	C			X	X					
3		LL7sw-002-SW	12-03-04	1100	W	G	X	X	X	X	X	X	X		
4		LL7sw-006-SW	12-03-04	0930	W	G	X	X	X	X	X	X	X		
5		LL7sw-007-SW	12-03-04	1010	W	G	X	X	X	X	X	X	X		
6		ASYmw-004-GW	12-03-04	1445	W	G	X	X	X	X	X	X	X	X	Cr+6 - Watch Hold Time!
7		ASYmw-007-GW	12-03-04	1345	W	G	X	X	X	X	X	X	X	X	Cr+6 - Watch Hold Time!
8		TRIP BLANK	Lab	Lab	W	G	X								

Relinquished by: <u>[Signature]</u>	Company: <b>MKM Engineers</b>	Date: <u>12/3/04</u>	Time: <u>1630</u>	Received By: <u>[Signature]</u>	Company: <b>STL North Canton (Courier)</b>	Date: _____	Time: _____
Relinquished by: _____	Company: <b>STL North Canton (Courier)</b>	Date: _____	Time: _____	Received By: _____	Company: <b>Fed Ex</b>	Date: _____	Time: _____
Relinquished by: _____	Company: <b>FedEx</b>	Date: _____	Time: _____	Received By: <u>[Signature]</u>	Company: <u>STL</u>	Date: <u>12-6-04</u>	Time: <u>0900</u>

**Matrix Key**  
 W - Water  
 S - Soil  
 SL - Sludge  
 SO - Solid  
 WW - Wastewater  
 SE - Sediment  
 L - Leachate  
 M - Miscellaneous  
 DL - Drum Liquid  
 DS - Drum Solid  
 W - Wipe  
 A - Air  
 OL - Oil  
 O - \_\_\_\_\_

Date Received: 12-6-04  
 Courier: EX  
 Hand Delivered: [Signature]  
 Bill of Lading: \_\_\_\_\_

rpjsckl

Job Sample Receipt Checklist Report

V2

Job Number.: 232478    Location.: 57222    Check List Number.: 1    Description.:  
 Customer Job ID.....:                      Job Check List Date.: 12/06/2004                      Date of the Report.: 12/27/2004  
 Project Number.: 20004694    Project Description.: USACE RVAAP 14 ADCS                      Project Manager.....: nsm  
 Customer.....: MKM Engineers, Inc.                      Contact.: Eric Ellis

Questions ?	(Y/N)	Comments
Chain-of-Custody Present?.....	Y	
Were samples dropped off at or picked up by STL?..	N	
Custody seal on shipping container?.....	Y	
...If "yes", custody seal intact?.....	Y	
Custody seals on sample containers?.....	N	
...If "yes", custody seal intact?.....		
Samples iced?.....	Y	
Temperature of cooler acceptable? (4 deg C +/- 2).	Y	3.3,3.2,2.9,3.5
Samples received intact (good condition)?.....	Y	
Volatile samples acceptable? (no headspace).....	Y	
Correct containers used?.....	Y	
Adequate sample volume provided?.....	Y	
Samples preserved correctly?.....	Y	
Samples received within holding-time?.....	N	see sdr
Agreement between COC and sample labels?.....	Y	
Radioactivity at or below background levels?.....	Y	
A Sample Discrepancy Report (SDR) was needed?.....	Y	see sdr
If samples were shipped was there an air bill #?..	Y	
Sample Custodian Signature/Date.....	Y	

**STL Sacramento**  
880 Riverside Parkway  
West Sacramento, CA 95605  
(910) 373-5600  
Fax: (916) 372-1059

**Report To:**

Contact:	Eric Ellis
Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920
Fax:	330-358-2924
Email:	eric.ellis@mkmengineers.com

**Bill To:**

Contact:	Eric Ellis
Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920
Fax:	330-358-2924
PO #:	
Quote #:	

Sampler Name:	ERIC ELLIS
Sampler Signature:	<i>[Signature]</i>
Project Name:	Characterization of RVAAP 14 AOCs
Project Number:	04-02-0030
Project Location:	RVAAP - Ravenna, Ohio
Lab PM:	Robert Hbarak

**Lab Lot #**

Package Sealed	Yes	No	Samples Sealed	Yes	No
Received on Ice	Yes	No	Samples Intact	Yes	No
Temperature C of Cooler					
Within Hold Time					
Preserv. Indicated					
pH Check OK					
Res CL2 Check OK					
Sample Labels and COC Agree					

Date Required	Hard Copy	21 Days	Refrig #	# / Cont.
	Fax/Email	14 Days	Volume	Preserv.

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	Propellants (Nitroguanidine/Nitrocellulose)	Additional Analyses / Remarks							
		LL7sw-002-SW	12-03-04	1100	W	G	x								
		LL7sw-006-SW	12-03-04	0930	W	G	x								
		LL7sw-007-SW	12-03-04	1010	W	G	x								
		ASYmw-004-GW	12-03-04	1445	W	G	x								
		ASYmw-007-GW	12-03-04	1345	W	G	x								

RECEIVED IN GOOD CONDITION UNDER COC  
DEC - 6 - 2004  
INI: *ge*

Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:
<i>[Signature]</i>	MKM Engineers	12/3/04	1630	<i>[Signature]</i>	STL North Canton (Courier)		
Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:
	STL North Canton (Courier)			<i>[Signature]</i>	Fed Ex		
Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:
	FedEx			<i>[Signature]</i>	STL	12-6-04	1215

**Matrix Key**  
W - Water DL - Drum Liquid A Air  
S - Soil SE - Sediment DS - Drum Solid OL - Oil  
SL - Sludge L - Leachate W - Wipe O \_\_\_\_\_  
SO - Solid M - Miscellaneous

Comments:

Date Received

Courier:

Hand Delivered:

Bill of Lading:



# STL

## LOT RECEIPT CHECKLIST STL Sacramento

CLIENT SACRAMENTO PM 24 LOG # 29900

LOT# (QUANTIMS ID) G4L060183 QUOTE# 60857 LOCATION W21B

DATE RECEIVED 12-6-04 TIME RECEIVED 0930

Initials De Date 12-6-04

- DELIVERED BY
- FEDEX
  - AIRBORNE
  - UPS
  - STL COURIER
  - OTHER
  - CA OVERNIGHT
  - GOLDENSTATE
  - BAX GLOBAL
  - COURIERS ON DEMAND
  - CLIENT
  - DHL
  - GO-GETTERS

CUSTODY SEAL STATUS  INTACT  BROKEN  N/A

CUSTODY SEAL #(S) 613407 613597

SHIPPING CONTAINER(S)  STL  CLIENT  N/A

TEMPERATURE RECORD (IN °C) IR 1  3  OTHER

COC #(S) N/A

TEMPERATURE BLANK 3°C

SAMPLE TEMPERATURE 3°C

COLLECTOR'S NAME:  Verified from COC  Not on COC

PH MEASURED  YES  ANOMALY  N/A

LABELED BY.....

LABELS CHECKED BY.....

PEER REVIEW  NA

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING

- WETCHEM  N/A
- VOA-ENCORES  N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL  N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES  N/A

Clouseau  TEMPERATURE EXCEEDED (2 °C - 6 °C)\*  N/A

WET ICE  BLUE ICE  GEL PACK  NO COOLING AGENTS USED  PM NOTIFIED

Notes: \_\_\_\_\_

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

**Report To:**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5  
Ravenna, OH 44266**  
Phone: **330-358-2920**  
Fax: **330-358-2924**  
Email: **eric.ellis@mkmengeers.com**

**Bill To:**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5  
Ravenna, OH 44266**  
Phone: **330-358-2920**  
Fax: **330-358-2924**  
PO #:  
Quote #:

Lab Lot # **232497**

18

Sampler Name: **Eric Ellis**  
Sampler Signature: **[Signature]**  
Project Name: **Characterization of RVAAP 14 AOCs**  
Project Number: **04-02-0030**  
Project Location: **RVAAP - Ravenna, Ohio**  
Lab PM: **Nancy McDonald**

Package Sealed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Sealed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Received on ice <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Temperature C of Cooler <b>(3.4) (4.0) (3.7) (3.4) (2.9) (3.2)</b>	
Wipe Hold Time <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Preserv. Indicated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
pH Check OK <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Res CL2 Check OK <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Sample Labels and COC Agree <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> COC not present	

Date Required		Refr #	
Hard Copy	21 Days	# / Cont.	
Fax/Email	14 Days	Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Cr+6	Additional Analyses / Remarks
1		WSAss-020M-SO	12-03-04	1330	S	C			X	X					
2		WSAss-020-DUP	12-03-04	1330	S	C			X	X					
3		LL5sw-007-MS/MSD	12-06-04	0930	W	G	X	X	X	X		X	X		
4		LL5sw-007-DUP	12-06-04	0930	W	G	X	X	X	X		X	X		
5		LL5sw-007-SW	12-06-04	0930	W	G	X	X	X	X		X	X		
6		LL5sw-008-SW	12-06-04	1115	W	G	X	X	X	X		X	X		
7		LNWsw-052-SW	12-06-04	1015	W	G	X	X	X	X		X			
8		LNWsw-052-DUP	12-06-04	1015	W	G	X	X	X	X		X			
9		ASYsw-016-SW	12-06-04	1400	W	G	X	X	X	X		X			Cr+6 - Watch Hold Time!
10		ASYmw-005-GW	12-06-04	1410	W	G	X	X	X	X		X			Cr+6 - Watch Hold Time!
11		ASYmw-004-GW	12-06-04	1515	W	G									Cr+6 - Watch Hold Time!
		ASYmw-007-GW	12-06-04	1500	W	G									Cr+6 - Watch Hold Time!

Relinquished by: <b>[Signature]</b>	Company: <b>MKM Engineers</b>	Date: <b>12/1/04</b>	Time: <b>1630</b>	Received By:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <b>[Signature]</b>	Company: <b>sn</b>	Date: <b>12/1/04</b>	Time: <b>1000</b>

**Matrix Key**  
W - Water  
S - Soil  
SL - Sludge  
SO - Solid  
WW - Wastewater  
SE - Sediment  
L - Leachate  
M - Miscellaneous  
DL - Drum Liquid  
DS - Drum Solid  
W - Wipe  
A - Air  
OL - Oil  
O - \_\_\_\_\_

Comments: **[Signature]**

Date Received: **12/1/04**  
Courier: **EX**  
Hand Delivered:  
Bill of Lading: **see attach**



STL Chicago  
2417 Bond St.  
University Park, IL 60486  
708-534-5200  
Fax: 708-534-5211

Report To:

Bill To:

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 6 Ravenna, OH 44286	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengineers.com	PO #:	

Lab Lot # 232497

19

Sampler Name: Eric Ellis  
 Sampler Signature: [Signature]  
 Project Name: Characterization of RVAAP 14 AOCs  
 Project Number: 04-02-0030  
 Project Location: RVAAP - Ravenna, Ohio  
 Lab PM: Nancy McDonald

Package Sealed	Yes	No	Sample Sealed	Yes	No
Received on Ice	Yes	No	Samples Intact	Yes	No
Temperature C of Cooler					

Within Hold Time	Yes	No	
Preserv. Indicated	Yes	No	N/A
pH Check OK	Yes	No	N/A
Res CL2 Check OK	Yes	No	N/A

Date Required	21 Days	Refrg #	
Hard Copy	14 Days	# / Cont.	
Fax/Email		Volume	
		Preserv.	

Sample Labels and COC Agree	Yes	No	COC not present
-----------------------------	-----	----	-----------------

Laboratory ID	MS-MSD	Client Sample ID	Sampling		Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pesticides	Nitrate	Cyanide	Additional Analyses / Remarks
			Date	Time											
12		TRIP BLANK	Lab	Lab	W	G	x								
13		LL7sw-006-SW	12-06-04	1605	W	G								x	
14		ASYsw-014-SW	12-06-04	1500	W	G	x	x	x	x	x	x			

Relinquished by: <u>[Signature]</u>	Company: <b>MKM Engineers</b>	Date: <u>12/6/04</u>	Time: <u>1630</u>	Received By:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <u>[Signature]</u>	Company: <b>SR</b>	Date: <u>12/7/04</u>	Time: <u>1000</u>

<b>Matrix Key</b> W - Water S - Soil SL - Sludge SO - Solid WW - Wastewater SE - Sediment L - Leachate M - Miscellaneous DL - Drum Liquid DS - Drum Solid W - Wipe A - Air OL - Oil O - _____	Date Received: <u>12/7/04</u> Courier: <u>PS</u> Hand Delivered: Bill of Lading: <u>see attach</u>
---	---

rpjsckl	Job Sample Receipt Checklist Report		V2
Job Number.: 232497	Location.: 57222	Check List Number.: 1	Description.:
Customer Job ID.....:	Job Check List Date.: 12/07/2004		Date of the Report.: 12/28/2004
Project Number.: 20004694	Project Description.: USACE RVAAP 14 AOCS		Project Manager.....: nsm
Customer.....: MKM Engineers, Inc.	Contact.: Eric Ellis		
Questions ?	(Y/N) Comments		
Chain-of-Custody Present?.....	Y		
Were samples dropped off at or picked up by STL?..	N		
Custody seal on shipping container?.....	Y		
...If "yes", custody seal intact?.....	Y		
Custody seals on sample containers?.....	N		
...If "yes", custody seal intact?.....			
Samples iced?.....	Y		
Temperature of cooler acceptable? (4 deg C +/- 2). Y	3.4,4.0,3.7,3.4,2.9,3.2		
Samples received intact (good condition)?.....	Y		
Volatile samples acceptable? (no headspace).....	Y		
Correct containers used?.....	Y		
Adequate sample volume provided?.....	Y		
Samples preserved correctly?.....	Y		
Samples received within holding-time?.....	Y		
Agreement between COC and sample labels?.....	Y		
Radioactivity at or below background levels?.....	Y		
A Sample Discrepancy Report (SDR) was needed?.....	N		
If samples were shipped was there an air bill #?..	Y		
Sample Custodian Signature/Date.....	Y		



STL Sacramento  
 880 Riverside Parkway  
 West Sacramento, CA 95605  
 (910) 373-5600  
 Fax: (916) 372-1059

<b>Report To:</b>		<b>Bill To:</b>	
Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengineers.com	PO #:	
		Quote #:	

Lab Lot # \_\_\_\_\_

Package Sealed	Yes	No	Samples Sealed	Yes	No
Received on Ice	Yes	No	Samples Intact	Yes	No
Temperature C of Cooler					
Within Hold Time					
Preserv. Indicated					
pH Check OK					
Res CL2 Check OK					
Sample Labels and COC Agree					

Sampler Name: ERIC ELLIS  
 Sampler Signature: [Signature]  
 Project Name: **Characterization of RVAAP 14 AOCs**  
 Project Number: **04-02-0030**  
 Project Location: **RVAAP - Ravenna, Ohio**  
 Lab PM: **Robert Hbarak**

Date Required	21 Days	Refrig #	
Hard Copy	14 Days	# / Cont	
Fax/Email		Volume	
		Preserv	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	Propellants (Nitrogandine/ Nitrocellulose)	Additional Analyses / Remarks							
		LL5sw-008-SW	12-06-04	1115	W	G	x								
		LNWsw-052-SW	12-06-04	1015	W	G	x								
		LNWsw-052-DUP	12-06-04	1015	W	G	x								
		ASYsw-016-SW	12-06-04	1400	W	G	x								
		ASYmw-005-GW	12-06-04	1410	W	G	x								
		ASYsw-014-SW	12-06-04	1500	W	G	x								

RECEIVED IN GOOD CONDITION  
 UNDER COC  
 DEC - 7 2004  
 INI. [Signature]

Relinquished by: <u>[Signature]</u>	Company: <b>MKM Engineers</b>	Date: <u>12/6/04</u>	Time: <u>1630</u>	Received By:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <u>[Signature]</u>	Company: <b>STL SAC</b>	Date: <u>12-7-04</u>	Time: <u>1130</u>

**Matrix Key**  
 W - Water  
 S - Soil  
 SL - Sludge  
 SO - Solid  
 WW - Wastewater  
 SE - Sediment  
 L - Leachate  
 M - Miscellaneous  
 DL - Drum Liquid  
 DS - Drum Solid  
 W - Wipe  
 A Air  
 OL - Oil  
 O \_\_\_\_\_

Comments: \_\_\_\_\_  
 Date Received: \_\_\_\_\_  
 Courier: \_\_\_\_\_  
 Hand Delivered: \_\_\_\_\_  
 Bill of Lading: \_\_\_\_\_

CLIENT MM PM PH LOG # 29926  
LOT# (QUANTIMS ID) 64L070388 QUOTE# 10657 LOCATION W10D

DATE RECEIVED 12-7-04 TIME RECEIVED 1015 Initials CIA Date 12-7-04

DELIVERED BY  FEDEX  CA OVERNIGHT  CLIENT  
 AIRBORNE  GOLDENSTATE  DHL  
 UPS  BAX GLOBAL  GO-GETTERS  
 STL COURIER  COURIERS ON DEMAND  
 OTHER

CUSTODY SEAL STATUS  INTACT  BROKEN  N/A  
CUSTODY SEAL #(S) 612817 612807

SHIPPING CONTAINER(S)  STL  CLIENT  N/A  
TEMPERATURE RECORD (IN °C) IR 1  3   OTHER \_\_\_\_\_

COC #(S) N/A  
TEMPERATURE BLANK 3°  
SAMPLE TEMPERATURE 3°

COLLECTOR'S NAME:  Verified from COC.  Not on COC

pH MEASURED  YES  ANOMALY  N/A

LABELED BY.....

LABELS CHECKED BY.....  
PEER REVIEW NA

SHORT HOLD TEST NOTIFICATION SAMPLE RECEIVING  
WETCHEM  N/A  
VOA-ENCORES  N/A  
 METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL  N/A  
 COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES  N/A  
 Clouseau  TEMPERATURE EXCEEDED (2 °C – 6 °C)\*\*  N/A  
 WET ICE  BLUE ICE  GEL PACK  NO COOLING AGENTS USED  PM NOTIFIED

Notes:

\*1 Acceptable temperature range for State of Wisconsin samples is  $\leq 4^{\circ}\text{C}$ .



STL

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

<b>Report To:</b>		<b>Bill To:</b>	
Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-368-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengineers.com	PO #:	
		Quote #:	

Lab Lot # **232540** 16

Package Sealed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Sealed <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Received on Ice <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Temperature C of Cooler <b>(3.7) (3.7) (4.1) (3.4) (4.9) (3.9) (4.0)</b>	
Within Hold Time <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Preserv. Indicated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
pH Check OK <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Res CL2 Check OK <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Sample Labels and COC Agree <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> COC not present.	

Sampler Name:	<b>ERIC ELLIS</b>
Sampler Signature:	<i>[Signature]</i>
Project Name:	<b>Characterization of RVAAP 14 AOCs</b>
Project Number:	<b>04-02-0030</b>
Project Location:	<b>RVAAP - Ravenna, Ohio</b>
Lab PM:	<b>Nancy McDonald</b>

Date Required	21 Days	Refrig #	
Hard Copy	14 Days	# / Cont.	
Fax/Email		Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Cr+6	Additional Analyses / Remarks
1		LL7sw-002-SVV	12-07-04	0915	W	G									
2		LL7sw-007-SW	12-07-04	0930	W	G									
3		ASYsw-001-SW	12-07-04	1045	W	G	x	x	x	x	x	x			
4		ASYsw-002-SW	12-07-04	1145	W	G	x	x	x	x	x	x			
5		ASYsw-004-SW	12-07-04	1030	W	G	x	x	x	x	x	x			
6		ASYsw-004-DUP	12-07-04	1030	W	G	x	x	x	x	x	x			
5		ASYsw-004-MS/MSD	12-07-04	1030	W	G	x	x	x	x	x	x			
7		ASYsw-009-SW	12-07-04	1130	W	G	x	x	x	x	x	x			
8		LL5sw-010-SW	12-07-04	1000	W	G	x	x	x	x		x	x		
9		LL5sw-009-SW	12-07-04	0920	W	G	x	x	x	x		x	x		
10		TRIP BLANK	Lab	Lab	W	G	x								
11	x	ASYsd-002-SD	12-07-04	1145	SE	G			x	x					

Relinquished by: <i>[Signature]</i>	Company: <b>MKM Engineers</b>	Date: <b>12/7/04</b>	Time: <b>1630</b>	Received By:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <i>[Signature]</i>	Company: <b>sn</b>	Date: <b>12/8/04</b>	Time: <b>0930</b>
Matrix Key	WW - Wastewater	DL - Drum Liquid	A Air	Comments: <i>[Signature]</i>		Date Received	
W - Water	SE - Sediment	DS - Drum Solid	OL - Oil			<b>12-8-04</b>	
S - Soil	L - Leachate	W - Wipe	O _____			Courier: <b>FX</b>	
SL - Sludge	M - Miscellaneous					Hand Delivered:	
SO - Solid						Bill of Lading: <i>see attach</i>	

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

<b>Report To:</b>		<b>Bill To:</b>	
Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengineers.com	PO #:	

Lab Lot # 232540

Sampler Name:	<u>ERIC ELLIS</u>
Sampler Signature:	<u>[Signature]</u>
Project Name:	Characterization of RVAAP 14 AOCs
Project Number:	04-02-0030
Project Location:	RVAAP - Ravenna, Ohio
Lab PM:	Nancy McDonald

Package Sealed	Yes	No	Samples Sealed	Yes	No
Received on Ice	Yes	No	Samples Intact	Yes	No
Temperature G of Cooler					
Within Hold Time					
Preserv. Indicated					
pH Check OK					
Res GL2 Check OK					
Sample Labels and COC Agree					

Date Required	21 Days	Refrig #	
Hard Copy	14 Days	# / Cont.	
Fax/Email		Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Cyanide	Cr+6	Additional Analyses / Remarks
12		ASYsd-001-SD	12-07-04	1045	SE	G			x	x						
13		ASYsd-001-DUP	12-07-04	1045	SE	G			x	x						
14		ASYsw-003-SW	12-07-04	1315	W	G	x	x	x	x	x	x				
15		ASYmw-006-GW	12-07-04	1345	W	G	x	x	x	x	x	x			x	Cr+6 - Watch Hold Time!

Relinquished by: <u>[Signature]</u>	Company: <b>MKM Engineers</b>	Date: <u>12/7/04</u>	Time: <u>1630</u>	Received By:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <u>[Signature]</u>	Company: <b>STL</b>	Date: <u>12/8/04</u>	Time: <u>0930</u>

**Matrix Key**  
W - Water  
S - Soil  
SL - Sludge  
SO - Solid  
WW - Wastewater  
SE - Sediment  
L - Leachate  
M - Miscellaneous  
DL - Drum Liquid  
DS - Drum Solid  
W - Wipe  
A - Air  
OL - Oil  
O - \_\_\_\_\_

Comments: \_\_\_\_\_

Date Received: 12/8/04  
Courier: [Signature]  
Hand Delivered:  
Bill of Lading: see attach

rpjsckl	Job Sample Receipt Checklist Report	V2
Job Number.: 232540	Location.: 57222	Check List Number.: 1
Customer Job ID.....:	Job Check List Date.: 12/08/2004	Description.: Date of the Report.: 01/03/2005
Project Number.: 20004694	Project Description.: USACE RVAAP 14 AOCs	Project Manager.....: nsm
Customer.....: MKM Engineers, Inc.	Contact.: Eric Ellis	
Questions ?	(Y/N) Comments	
Chain-of-Custody Present?.....	Y	
Were samples dropped off at or picked up by STL?..	N	
Custody seal on shipping container?.....	Y	
...If "yes", custody seal intact?.....	Y	
Custody seals on sample containers?.....	N	
...If "yes", custody seal intact?.....		
Samples iced?.....	Y	
Temperature of cooler acceptable? (4 deg C +/- 2).	Y	3.7,3.7,4.1,3.4,4.9,3.9,4.0
Samples received intact (good condition)?.....	Y	
Volatile samples acceptable? (no headspace).....	Y	
Correct containers used?.....	Y	
Adequate sample volume provided?.....	Y	
Samples preserved correctly?.....	Y	
Samples received within holding-time?.....	Y	
Agreement between CDC and sample labels?.....	Y	
Radioactivity at or below background levels?.....	Y	
A Sample Discrepancy Report (SDR) was needed?.....	N	
If samples were shipped was there an air bill #?..	Y	
Sample Custodian Signature/Date.....	Y	

**STL Sacramento**  
 880 Riverside Parkway  
 West Sacramento, CA 95605  
 (910) 373-5600  
 Fax: (916) 372-1059

**Report To:**

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengeers.com	PO #:	

**Bill To:**

Contact:	Eric Ellis
Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920
Fax:	330-358-2924
PO #:	
Quote #:	

**Lab Lot #**

Package Sealed Yes No	Samples Sealed Yes No
Received on Ice Yes No	Samples Intact Yes No
Temperature C of Cooler	
Within Hold Time Yes No	
Preserv. Indicated Yes No N/A	
pH Check: OK Yes No N/A	
Res GL2 Check OK Yes No N/A	
Sample Labels and COC Agree Yes No COC not present	

Sampler Name:	ERIC ELLIS
Sampler Signature:	<i>[Signature]</i>
Project Name:	Characterization of RVAAP 14 AOCs
Project Number:	04-02-0030
Project Location:	RVAAP - Ravenna, Ohio
Lab PM:	Robert Hbarak

Date Required		Refrg #	
Hard Copy	21 Days	#/Cont	
Fax/Email	14 Days	Volume	
		Preserv	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	Propellants (Nitroguanidine/ Nitrocellulose)	Additional Analyses / Remarks									
		ASYsw-001-SW	12-07-04	1045	W	G	x										
		ASYsw-002-SW	12-07-04	1145	W	G	x										
		ASYsw-004-SW	12-07-04	1030	W	G	x										
		ASYsw-004-DUP	12-07-04	1030	W	G	x										
		ASYsw-004-MS/MSD	12-07-04	1030	W	G	x										
		ASYsw-009-SW	12-07-04	1130	W	G	x										
		ASYsw-003-SW	12-07-04	1315	W	G	x										
		ASYmw-006-GW	12-07-04	1345	W	G	x										

RECEIVED IN GOOD CONDITION UNDER COC  
 DEC - 8 2004  
 INI *[Signature]*

Relinquished by: <i>[Signature]</i>	Company: MKM Engineers	Date: 12/7/04	Time: 1630	Received By:	Company: STL North Canton (Courier)	Date:	Time:
Relinquished by:	Company: STL North Canton (Courier)	Date:	Time:	Received By:	Company: Fed Ex	Date:	Time:
Relinquished by:	Company: FedEx	Date:	Time:	Received By: <i>[Signature]</i>	Company: STC-SAC	Date: 12-8-04	Time: 12:30

**Matrix Key**  
 W - Water DL - Drum Liquid A Air  
 S - Soil SE - Sediment DS - Drum Solid OL - Oil  
 SL - Sludge L - Leachate W - Wipe O \_\_\_\_\_  
 SO - Solid M - Miscellaneous

Comments:

Date Received
Courier:
Hand Delivered:
Bill of Lading:





# STL

## LOT RECEIPT CHECKLIST STL Sacramento

CLIENT MICM PM PH LOG # 29941  
 LOT# (QUANTIMS/ID) 942080982 QUOTE# 60857 LOCATION W24A

DATE RECEIVED 12-8-04 TIME RECEIVED 1000 Initials PH Date 12-8-04

DELIVERED BY  FEDEX  CA OVERNIGHT  CLIENT  
 AIRBORNE  GOLDENSTATE  DHL  
 UPS  BAX GLOBAL  GO-GETTERS  
 STL COURIER  COURIERS ON DEMAND  
 OTHER

CUSTODY SEAL STATUS  INTACT  BROKEN  N/A  
 CUSTODY SEAL #(S) 614416 614406

SHIPPING CONTAINER(S)  STL  CLIENT  N/A  
 TEMPERATURE RECORD (IN °C) IR 1  3  OTHER

COC #(S) N/A  
 TEMPERATURE BLANK 2°  
 SAMPLE TEMPERATURE 4°

COLLECTOR'S NAME:  Verified from COC  Not on COC  
 pH MEASURED  YES  ANOMALY  N/A

LABELED BY.....  
 LABELS CHECKED BY.....  
 PEER REVIEW  N/A

SHORT HOLD TEST NOTIFICATION SAMPLE RECEIVING  
 WETCHEM  N/A  
 VOA-ENCORES  N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL  N/A  
 COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES  N/A  
 Clouseau  TEMPERATURE EXCEEDED (2 °C - 6 °C)\*  N/A  
 WET ICE  BLUE ICE  GEL PACK  NO COOLING AGENTS USED  PMI NOTIFIED

Notes: \_\_\_\_\_

\*1 Acceptable temperature range for State of Wisconsin samples is ≤4°C.

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

<b>Report To:</b>		<b>Bill To:</b>	
Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkengineers.com	PO #:	

Sampler Name:	<b>ERICUS</b>
Sampler Signature:	<i>[Signature]</i>
Project Name:	Characterization of RVAAP 14 AOCs
Project Number:	04-02-0030
Project Location:	RVAAP - Ravenna, Ohio
Lab PM:	Nancy McDonald

Package Sealed Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Samples Sealed Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Received on Ice Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Samples Intact Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Temperature C of Cooler <b>3.3</b>	
Within Hold Time Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Preserv. Indicated Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
pH Check OK Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Res. CL2 Check OK Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sample Labels and COC Agree Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> COC not present	

Date Required		Refr #																
Hard Copy	21 Days	# / Cool.																
Fax/Email	14 Days	Volume																
		Preserv.																

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitrolycarin	Pest/PCBs	Nitrate	TPH DRO (8015)	TPH GRO (8015)	Additional Analyses / Remarks
1		ASYsd-012-SD	12-08-04	1030	SE	G			x	x				x	x	TPH GRO/DRO
2		ASYsd-011-SD	12-08-04		SE	G			x	x				x	x	TPH GRO/DRO
		ASYsd-010-SD	12-08-04	0945	SE	G	x	x	x	x	x	x				
		ASYsw-012-SD	12-08-04	0930	W	G	x	x	x	x	x	x				
		LL8sw-004-SW	12-08-04	1100	W	G	x	x	x	x		x	x			
		LL8sw-005-SW	12-08-04	0940	W	G	x	x	x	x	x	x	x			
		ASYsw-008-ER	12-08-04	1230	W	G	x	x	x	x		x				
		ASYsw-012-DUP	12-08-04	0930	W	G	x	x	x	x	x	x				
		ASYsw-011-SW	12-08-04	0910	W	G	x	x	x	x	x	x				
		ASYsw-010-SW	12-08-04	0945	W	G	x	x	x	x	x	x				
		TRIP BLANK	Lab	Lab	W	G	x									
3		ASYsd-012-DUP	12-08-04	1030	SE	G			x	x				x	x	TPH GRO/DRO

Relinquished by: <i>[Signature]</i>	Company: MKM Engineers	Date: 12/9/04	Time: 11:30	Received By:	Company: STL North Canton (Courier)	Date:	Time:
Relinquished by:	Company: STL North Canton (Courier)	Date:	Time:	Received By:	Company: Fed Ex	Date:	Time:
Relinquished by:	Company: FedEx	Date:	Time:	Received By: <i>[Signature]</i>	Company: <i>[Signature]</i>	Date: 12/9/04	Time:

<b>Matrix Key</b>	WW - Wastewater	DL - Drum Liquid	A Air
W - Water	SE - Sediment	DS - Drum Solid	OL - Oil
S - Soil	L - Leachate	W - Wipe	O _____
SL - Sludge	M - Miscellaneous		
SO - Solid			

Comments:	Date Received: 12-9-04
	Courier: <i>[Signature]</i>
	Hand Delivered:
	Bill of Lading: <i>see attach</i>

rpjsckl	Job Sample Receipt Checklist Report	V2
Job Number.: 232602	Location.: 57222	Check List Number.: 1
Customer Job ID.....:		Description.:
Project Number.: 20004694	Project Description.: USACE RVAAP 14 AOCs	Date of the Report.: 01/05/2005
Customer.....: MKM Engineers, Inc.	Contact.: Eric Ellis	Project Manager.....: nsm
Questions ?	(Y/N)	Comments
Chain-of-Custody Present?.....	Y	
Were samples dropped off at or picked up by STL?..	N	
Custody seal on shipping container?.....	Y	
...If "yes", custody seal intact?.....	Y	
Custody seals on sample containers?.....	N	
...If "yes", custody seal intact?.....		
Samples iced?.....	Y	
Temperature of cooler acceptable? (4 deg C +/- 2).	Y	3.3
Samples received intact (good condition)?.....	Y	
Volatile samples acceptable? (no headspace).....		
Correct containers used?.....	Y	
Adequate sample volume provided?.....	Y	
Samples preserved correctly?.....	Y	
Samples received within holding-time?.....	Y	
Agreement between COC and sample labels?.....	Y	
Radioactivity at or below background levels?.....	Y	
A Sample Discrepancy Report (SDR) was needed?.....	N	
If samples were shipped was there an air bill #?..	Y	
Sample Custodian Signature/Date.....	Y	

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

<b>Report To:</b>	<b>Eric Ellis</b>	<b>Bill To:</b>	<b>Eric Ellis</b>
Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengeers.com	PO #:	
		Quote #:	

Lab Lot # 252603

Package Sealed:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Samples Sealed:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Received on Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Samples Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Temperature C of Cooler:	29 (37) (39) (56) (61) (33) (45) (34) (27)		
Within Hold Time:	Yes <input type="checkbox"/> No <input type="checkbox"/>		
Preserv. Indicated:	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>		
pH Check OK:	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>		
Res. CL2 Check OK:	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>		
Samples Labels and COE Agree:	Yes <input type="checkbox"/> No <input type="checkbox"/> COE not present <input type="checkbox"/>		

Sampler Name:	<u>ERICUS</u>
Sampler Signature:	<u>[Signature]</u>
Project Name:	Characterization of RVAAP 14 AOCs
Project Number:	04-02-0030
Project Location:	RVAAP - Ravenna, Ohio
Lab PM:	Nancy McDonald

Date Required	21 Days	Relig #	
Hard Copy	14 Days	# / Cont.	
Fax/Email		Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	TPH DRO (8015)	TPH GRO (8015)	Additional Analyses / Remarks
		ASYsd-012-SD	12-08-04	1030	SE	G			x	x				x	x	TPH GRO/DRO
		ASYsd-011-SD	12-08-04		SE	G			x	x				x	x	TPH GRO/DRO
1		ASYsd-010-SD	12-08-04	0945	SE	G	x	x	x	x	x	x				
2		ASYsw-012-SW	12-08-04	0930	W	G	x	x	x	x	x	x				
3		LL8sw-004-SW	12-08-04	1100	W	G	x	x	x	x	x	x	x			
4		LL8sw-005-SW	12-08-04	0940	W	G	x	x	x	x	x	x	x			
5		ASYsw-008-ER	12-08-04	1230	W	G	x	x	x	x	x	x				
6		ASYsw-012-DUP	12-08-04	0930	W	G	x	x	x	x	x	x				
7		ASYsw-011-SW	12-08-04	0910	W	G	x	x	x	x	x	x				
8		ASYsw-010-SW	12-08-04	0945	W	G	x	x	x	x	x	x				
9		TRIP BLANK	Lab	Lab	W	G	x									
10		ASYsd-012-DUP	12-08-04	1030	SE	G			x	x				x	x	TPH GRO/DRO

Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:
<u>[Signature]</u>	MKM Engineers	12/8/04	1130		STL North Canton (Courier)		
Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:
	STL North Canton (Courier)				Fed Ex		
Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:
	FedEx			<u>[Signature]</u>	SR	12/9/04	1000

<b>Matrix Key</b>	WW - Wastewater	DL - Drum Liquid	A Air	Comments:	Date Received:
W - Water	SE - Sediment	DS - Drum Solid	OL - Oil		12/9/04
S - Soil	L - Leachate	W - Wipe	O _____		Courier: EX
SL - Sludge	M - Miscellaneous				Hand Delivered:
SO - Solid					Bill of Lading: see attach

17

**Report To:**

**Bill To:**

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44286	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengeers.com	PO #:	

Lab Lot # 232603

Sampler Name:	<u>ERIC ELLIS</u>
Sampler Signature:	<u>[Signature]</u>
Project Name:	Characterization of RVAAP 14 AOCs
Project Number:	04-02-0030
Project Location:	RVAAP - Ravenna, Ohio
Lab PM:	Nancy McDonald

Package Sealed	Yes	No	Samples Sealed	Yes	No
Received on Ice	Yes	No	Samples Intact	Yes	No
Temperature C of Cooler					
Within Hold Time	Yes	No			
Preserv. Indicated	Yes	No	N/A		
pH Check OK	Yes	No	N/A		
Res Cl2 Check OK	Yes	No	N/A		
Sample Labels and COC Agree	Yes	No	COC not present		

Date Required	21 Days	Refr #	
Hard Copy	14 Days	# / Cont.	
Fax/Email		Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Cyanide	Additional Analyses / Remarks
<u>10</u>		LL8sd-001-SD	12-08-04	1140	SE	G			x	x					
<u>12-11</u>		LL8sd-005-SD	12-08-04	0940	SE	G			x	x					
<u>12-12</u>		ASYsw-008-SW	12-08-04	1415	W	G	x	x	x	x	x	x			
<u>14-13</u>		LL8sw-002-SW	12-08-04	1450	W	G	x	x	x	x		x	x		
<u>15-14</u>		ASYsd-008-SD	12-08-04	1450	SE	G			x	x					
<u>16-15</u>	X	LL8sw-003-MS/MSD	12-08-04	1340	W	G	x	x	x	x		x	x		
<u>17-15</u>		LL8sw-003-SW	12-08-04	1340	W	G	x	x	x	x		x	x		
<u>17-16</u>		LL8sw-003-DUP	12-08-04	1340	W	G	x	x	x	x		x	x		

Relinquished by: <u>[Signature]</u>	Company: MKM Engineers	Date: <u>12/8/04</u>	Time: <u>1630</u>	Received By:	Company: STL North Canton (Courier)	Date:	Time:
Relinquished by:	Company: STL North Canton (Courier)	Date:	Time:	Received By:	Company: Fed Ex	Date:	Time:
Relinquished by:	Company: FedEx	Date:	Time:	Received By: <u>[Signature]</u>	Company: <u>SL</u>	Date: <u>12/9/04</u>	Time: <u>1000</u>
Matrix Key W - Water S - Soil SL - Sludge SO - Solid	WW - Wastewater SE - Sediment L - Leachate M - Miscellaneous	DL - Drum Liquid DS - Drum Solid W - Wipe	A - Air OL - Oil O -	Comments:	Date Received: <u>12-9-04</u>	Counter: <u>PK</u>	Hand Delivered: <u>[Signature]</u>

Job Number.: 232603 Location.: 57222 Check List Number.: 1 Description.:  
 Customer Job ID..... Job Check List Date.: 12/09/2004 Date of the Report...: 01/06/2005  
 Project Number.: 20004694 Project Description.: USACE RVAAP 14 AOCs Project Manager.....: nsm  
 Customer.....: MKM Engineers, Inc. Contact.: Eric Ellis

Questions ? (Y/N) Comments

- Chain-of-Custody Present?..... Y
- Were samples dropped off at or picked up by STL?.. N
- Custody seal on shipping container?..... Y
- ...If "yes", custody seal intact?..... Y
- Custody seals on sample containers?..... N
- ...If "yes", custody seal intact?.....
- Samples iced?..... Y
- Temperature of cooler acceptable? (4 deg C +/- 2). Y 2.9,3.7,3.9,3.6,4.1,3.3,4.5,3.4,2.7
- Samples received intact (good condition)?..... Y
- Volatile samples acceptable? (no headspace)..... Y
- Correct containers used?..... Y
- Adequate sample volume provided?..... Y
- Samples preserved correctly?..... Y
- Samples received within holding-time?..... Y
- Agreement between COC and sample labels?..... Y
- Radioactivity at or below background levels?..... Y
- A Sample Discrepancy Report (SDR) was needed?..... N
- If samples were shipped was there an air bill #?.. Y
- Sample Custodian Signature/Date..... Y



STL Sacramento  
880 Riverside Parkway  
West Sacramento, CA 95605  
(910) 373-5600  
Fax: (916) 372-1059

Report To:

Contact: Eric Ellis  
Company: MKM Engineers, Inc.  
Address: 8451 State Route 5  
Ravenna, OH 44266  
Phone: 330-358-2920  
Fax: 330-358-2924  
Email: eric.ellis@mkmengengineers.com

Bill To:

Contact: Eric Ellis  
Company: MKM Engineers, Inc.  
Address: 8451 State Route 5  
Ravenna, OH 44266  
Phone: 330-358-2920  
Fax: 330-358-2924  
PO #:  
Quote #:

Lab Lot #

Package Sealed: Yes No  
Samples Sealed: Yes No  
Received on Ice: Yes No  
Samples Intact: Yes No  
Temperature C of Cooler:  
Within Hold Time: Yes No  
Preserv. Indicated: Yes No N/A  
pH Check OK: Yes No N/A  
Res Cl2 Check OK: Yes No N/A  
Sample Labels and COC Agree: Yes No COC not present

Sampler Name: ERIC ELLIS  
Sampler Signature: [Signature]  
Project Name: Characterization of RVAAP 14 AOCs  
Project Number: 04-02-0030  
Project Location: RVAAP - Ravenna, Ohio  
Lab PM: Robert Hbarak

Table with columns: Date Required, Hard Copy, Fax/Email, Refrg #, # / Cont, Volume, Preserv.

STL-Sacramento (916) 373-5600

Main data table with columns: Laboratory ID, MS-MSD, Client Sample ID, Sampling Date, Sampling Time, Matrix, Comp/Grab, Propellants (Nitroguanine/Nitrocellulose), Additional Analyses / Remarks

RECEIVED IN GOOD CONDITION  
UNDER COC  
DEC - 9 2004  
INITIALS

Relinquished by: [Signature] Company: MKM Engineers Date: 12/8/04 Time: 1630  
Received By: [Signature] Company: STL North Canton (Courier) Date: Time:  
Relinquished by: Company: STL North Canton (Courier)  
Received By: [Signature] Company: Fed Ex Date: Time:  
Relinquished by: Company: FedEx Date: Time:  
Received By: [Signature] Company: [Signature] Date: 12/9/04 Time: 1400

Matrix Key  
W - Water WW - Wastewater DL - Drum Liquid A Air  
S - Soil SE - Sediment DS - Drum Solid OL - Oil  
SL - Sludge L - Leachate W - Wipe O \_\_\_\_\_  
SO - Solid M - Miscellaneous

Comments:  
Date Received  
Courier:  
Hand Delivered:  
Bill of Lading:



# STL

## LOT RECEIPT CHECKLIST STL Sacramento

CLIENT STL-CALIFORNIA PM 24 LOG # 29963

LOT# (QUANTIMS ID) 612090396 QUOTE# 60857 LOCATION W3B

DATE RECEIVED 12-9-04 TIME RECEIVED 1050 Initials ge Date 12-9-04

- DELIVERED BY
- FEDEX
  - AIRBORNE
  - UPS
  - STL COURIER
  - OTHER
  - CA OVERNIGHT
  - GOLDENSTATE
  - BAX GLOBAL
  - COURIERS ON DEMAND
  - CLIENT
  - DHL
  - GO-GETTERS

CUSTODY SEAL STATUS  INTACT  BROKEN  N/A

CUSTODY SEAL #(S) 614516 614496

SHIPPING CONTAINER(S)  STL  CLIENT  N/A

TEMPERATURE RECORD (IN °C) IR 1  3  OTHER

COC #(S) N/A

TEMPERATURE BLANK 4°C

SAMPLE TEMPERATURE 3°C

COLLECTOR'S NAME:  Verified from COC.  Not on COC

pH MEASURED  YES  ANOMALY  N/A

LABELLED BY.....

LABELS CHECKED BY.....

PEER REVIEW  N/A

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING

- WETCHEM  N/A
- VOA-ENCORES  N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL  N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES  N/A

Clouseau  TEMPERATURE EXCEEDED (2 °C - 6 °C)\*  N/A

WET ICE  BLUE ICE  GEL PACK  NO COOLING AGENTS USED  PM NOTIFIED

Notes: \_\_\_\_\_

\*1 Acceptable temperature range for State of Wisconsin samples is  $\leq 4^{\circ}\text{C}$ .



STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

**Report To:**

**Bill To:**

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5	Address:	8451 State Route 5
	Ravenna, OH 44266		Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengineers.com	PO #:	

Lab Lot # 232642

Sampler Name:	<i>Sue Boles</i>
Sampler Signature:	<i>Sue Boles</i>
Project Name:	Characterization of RVAAP 14 AOCs
Project Number:	04-02-0030
Project Location:	RVAAP - Ravenna, Ohio
Lab PM:	Nancy McDonald

Package Sealed	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Samples Sealed	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Received on Ice	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Samples Intact	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Temperature C of Cooler	(3.9) (4.1) (2.4) (4.3) (4.9) (3.5)		
Within Hold Time	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Preserv. Indicated	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
pH Check OK	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Res. CL2 Check OK	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Sample Labels and CDC Agree	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> COC not present		

Date Required		Refr #	
Hard Copy	21 Days	# / Cont.	
Fax/Email	14 Days	Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Additional Analyses / Remarks
1		ASYsw-006-SW	12-09-04	1045	W	G	X	X	X	X	X	X		
2		ASYsw-007-SW	12-09-04	1115	W	G	X	X	X	X	X	X		
3		ASYsw-005-SW	12-09-04	1000	W	G	X	X	X	X	X	X		
4		LL8sw-007-SW	12-09-04	1030	W	G	X	X	X	X		X	X	
5		LL8sw-008-SW	12-09-04	0930	W	G	X	X	X	X		X	X	
6		LL8sd-007-SD	12-09-04	1030	SE	G			X	X				
7		LL8sd-007-DUP	12-09-04	1030	SE	G			X	X				
8		TRIP BLANK	LAB	LAB	W	G	X							
9		LL8sw-011-SW	12-09-04	1415	W	G	X	X	X	X	X	X	X	
10		LL8sd-011-SD	12-09-04	1415	SE	G			X	X				
11		LL8sw-010-SW	12-09-04	1510	W	G	X	X	X	X		X	X	
12		LL8sd-010-SD	12-09-04	1510	SE	G			X	X				

Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:
<i>Sue Boles</i>	MKM Engineers	12/09/04	1630		STL North Canton (Courier)		
Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:
	STL North Canton (Courier)				Fed Ex		
Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:
	FedEx			<i>jt</i>	sr	12/10/04	1600

Matrix Key	WW - Wastewater	DL - Drum Liquid	A - Air	Comments:	Date Received
W - Water	SE - Sediment	DS - Drum Solid	OL - Oil		12/10/04
S - Soil	L - Leachate	W - Wipe	O _____		Courier: <i>dx</i>
SL - Sludge	M - Miscellaneous				Hand Delivered:
SO - Solid					Bill of Lading: <i>see attached</i>

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

**Report To:**

**Bill To:**

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengeers.com	PO #:	

Lab Lot # 232642

Sampler Name:	<i>Sue Bates</i>
Sampler Signature:	<i>Sue Bates</i>
Project Name:	Characterization of RVAAP 14 AOCs
Project Number:	04-02-0030
Project Location:	RVAAP - Ravenna, Ohio
Lab PM:	Nancy McDonald

Package Sealed	Samples Sealed
Yes No	Yes No
Received on Ice	Samples Intact
Yes No	Yes No
Temperature C of Cooler	
Within Hold Time	
Yes No	
Preserv. Indicated	
Yes No N/A	
pH Check OK	
Yes No N/A	
Res CL2 Check OK	
Yes No N/A	
Sample Labels and COC Agree	
Yes No COC not present	

Date Required	21 Days	Refr #	
Hard Copy	14 Days	# / Cont.	
Fax/Email		Volume	
		Preserv	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Cyanide	Additional Analyses / Remarks
13		B12mw-011-GW	12-09-04	1400	W	G	X	X	X	X	X	X			
14		B12mw-011-DUP	12-09-04	1400	W	G	X	X	X	X	X	X			

Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:
<i>Sue Bates</i>	MKM Engineers	12/09/04	1630		STL North Canton (Courier)		
Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:
	STL North Canton (Courier)				Fed Ex		
Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:
	FedEx			<i>JS</i>	<i>SK</i>	12/10/04 1000	
<b>Matrix Key</b>				Comments:		Date Received	
W - Water	WW - Wastewater	DL - Drum Liquid	A - Air			12/10/04	
S - Soil	SE - Sediment	DS - Drum Solid	OL - Oil			Courier: <i>FX</i>	
SL - Sludge	L - Leachate	W - Wipe	O - _____			Hand Delivered:	
SO - Solid	M - Miscellaneous					Bill of Lading: <i>see attach</i>	

rpjsckl	Job Sample Receipt Checklist Report		V2
Job Number.: 232642	Location.: 57222	Check List Number.: 1	Description.:
Customer Job ID.....:	Job Check List Date.: 12/10/2004		Date of the Report...: 01/04/2005
Project Number.: 20004694	Project Description.: USACE RVAAP 14 AOCs		Project Manager.....: nsm
Customer.....: MKM Engineers, Inc.	Contact.: Eric Ellis		
Questions ?	(Y/N) Comments		
Chain-of-Custody Present?.....	Y		
Were samples dropped off at or picked up by STL?..	N		
Custody seal on shipping container?.....	Y		
...If "yes", custody seal intact?.....	Y		
Custody seals on sample containers?.....	N		
...If "yes", custody seal intact?.....			
Samples iced?.....	Y		
Temperature of cooler acceptable? (4 deg C +/- 2).	Y 3.9,4.1,3.4,4.3,4.9,3.5		
Samples received intact (good condition)?.....	Y		
Volatile samples acceptable? (no headspace).....	Y		
Correct containers used?.....	Y		
Adequate sample volume provided?.....	Y		
Samples preserved correctly?.....	Y		
Samples received within holding-time?.....	Y		
Agreement between COC and sample labels?.....	Y		
Radioactivity at or below background levels?.....	Y		
A Sample Discrepancy Report (SDR) was needed?.....	N		
If samples were shipped was there an air bill #?..	Y		
Sample Custodian Signature/Date.....	Y		



STL Sacramento  
880 Riverside Parkway  
West Sacramento, CA 95605  
(910) 373-5600  
Fax: (916) 372-1059

<b>Report To:</b>		<b>Bill To:</b>	
Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmeengineers.com	PO #:	
Quote #:			

Sampler Name: Jane Boles  
 Sampler Signature: Jane Boles  
 Project Name: **Characterization of RVAAP 14 AOCs**  
 Project Number: **04-02-0030**  
 Project Location: **RVAAP - Ravenna, Ohio**  
 Lab PM: **Robert Hbarak**

**Lab Lot #**

Package Sealed	Yes	No	Samples Sealed	Yes	No
Received on Ice	Yes	No	Samples Intact	Yes	No
Temperature C of Cooler					
Within Hold Time					
Preserv. Indicated					
pH Check OK					
Res CL2 Check OK					
Sample Labels and GOC Agree					

Date Required		Refrg #																		
Hard Copy	21 Days	# / Cont																		
Fax/Email	14 Days	Volume																		
		Preserv.																		

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	Propellants (Nitroguanidine/ Nitrocellulose)	Additional Analyses / Remarks											
		ASYsw-007-SW	12-09-04	1115	W	G	x												
		ASYsw-005-SW	12-09-04	1000	W	G	x												
		ASYsw-006-SW	12-09-04	1045	W	G	x												
		B12mw-011-DUP	12-09-04	1400	W	G	x												
		B12mw-011-GW	12-09-04	1400	W	G	x												

RECEIVED IN GOOD CONDITION UNDER GOC  
 DEC 10 2004  
 INI. fe

Relinquished by: <u>Jane Boles</u>	Company: <b>MKM Engineers</b>	Date: <u>12/09/04</u>	Time: <u>1630</u>	Received By:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <u>[Signature]</u>	Company: <u>STL SAE</u>	Date: <u>12/10/04</u>	Time: <u>1245</u>

**Matrix Key**  
 W - Water      WW - Wastewater      DL - Drum Liquid      A - Air  
 S - Soil        SE - Sediment        DS - Drum Solid      OL - Oil  
 SL - Sludge    L - Leachate        W - Wipe              O - \_\_\_\_\_  
 SO - Solid      M - Miscellaneous

Comments:

Date Received
Courier:
Hand Delivered:
Bill of Lading:



# STL

## LOT RECEIPT CHECKLIST STL Sacramento

CLIENT STL CHICAGO PM RLK LOG # 29999  
 LOT# (QUANTIMS ID) 641100365 QUOTE# 60857 LOCATION WTD

DATE RECEIVED 12-10-04 TIME RECEIVED 0930 Initials GC Date 12-10-04

- DELIVERED BY  FEDEX  CA OVERNIGHT  CLIENT  
 AIRBORNE  GOLDENSTATE  DHL  
 UPS  BAX GLOBAL  GO-GETTERS  
 STL COURIER  COURIERS ON DEMAND  
 OTHER

CUSTODY SEAL STATUS  INTACT  BROKEN  N/A

CUSTODY SEAL #(S) 614876

SHIPPING CONTAINER(S)  STL  CLIENT  N/A

TEMPERATURE RECORD (IN °C) IR 1  3  OTHER

COC #(S) N/A

TEMPERATURE BLANK 5°C

SAMPLE TEMPERATURE 5°C

COLLECTOR'S NAME:  Verified from COC.  Not on COC

pH MEASURED  YES  ANOMALY  N/A

LABELED BY.....

LABELS CHECKED BY.....

PEER REVIEW  NA

SHORT HOLD TEST NOTIFICATION SAMPLE RECEIVING  
 WETCHEM  N/A  
 VOA-ENCORES  N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL  N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES  N/A

Clouseau  TEMPERATURE EXCEEDED (2 °C - 6 °C)\*  N/A

WET ICE  BLUE ICE  GEL PACK  NO COOLING AGENTS USED  PM NOTIFIED

Notes: \_\_\_\_\_

\*1 Acceptable temperature range for State of Wisconsin samples is <4°C.

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

**Report To:**

**Bill To:**

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengeers.com	PO #:	
		Quote #:	

Lab Lot # 232687

13

Sampler Name:	<u>ERIC ELLIS</u>
Sampler Signature:	<u>[Signature]</u>
Project Name:	Characterization of RVAAP 14 AOCs
Project Number:	04-02-0030
Project Location:	RVAAP - Ravenna, Ohio
Lab PM:	Nancy McDonald

Package Sealed	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Samples Sealed	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Received on Ice	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Samples Intact	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Temperature C of Cooler:	(3.1) (2.7)		
Water Hold Time	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Preserv. Indicated	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
pH Check OK	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Res Cl2 Check OK	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Sample Labels and COC Agree	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> COC not present		

Date Required	21 Days	Ref#	
Hard Copy	14 Days	# / Cont.	
Fax/Email		Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Additional Analyses / Remarks
1		LL8sw-009-SW	12-10-04	0915	W	G	x	x	x	x		x	x	
2		LL8sd-009-SD	12-10-04	0930	SE	G			x	x				
3		ASYsw-017-SW	12-10-04	1425	w	G	x	x	x	x	x	x		
4		ASYsd-017-SD	12-10-04	1425	WSE	G			x	x				
5		TRIP BLANK	LAB	LAB	W	G	x							
6	x	LL5sd-002-SD	12-10-04	1550	SE	G			x	x			x	
7		LL5sd-002-DUP	12-10-04	1550	SE	G			x	x			x	

Relinquished by: <u>[Signature]</u>	Company: MKM Engineers	Date: 12/10/04	Time: 1630	Received By:	Company: STL North Canton (Courier)	Date:	Time:
Relinquished by:	Company: STL North Canton (Courier)	Date:	Time:	Received By:	Company: Fed Ex	Date:	Time:
Relinquished by:	Company: FedEx	Date:	Time:	Received By: <u>[Signature]</u>	Company: <u>SH</u>	Date: 12/10/04	Time: 10:09:15
Matrix Key	WW - Wastewater	DL - Drum Liquid	A - Air	Comments:		Date Received:	
W - Water	SE - Sediment	DS - Drum Solid	OL - Oil			Courier:	
S - Soil	L - Leachate	W - Wipe	O _____			Hand Delivered:	
SL - Sludge	M - Miscellaneous					Bill of Lading:	
SO - Solid							

rpjsckl	Job Sample Receipt Checklist Report		V2
Job Number.: 232687	Location.: 57222	Check List Number.: 1	Description.:
Customer Job ID.....:		Job Check List Date.: 12/11/2004	Date of the Report...: 01/05/2005
Project Number.: 20004694	Project Description.: USACE RVAAP 14 AQCS		Project Manager.....: nsm
Customer.....: MKM Engineers, Inc.		Contact.: Eric Ellis	
Questions ?	(Y/N) Comments		
Chain-of-Custody Present?.....	Y		
Were samples dropped off at or picked up by STL?..	N		
Custody seal on shipping container?.....	Y		
...If "yes", custody seal intact?.....	Y		
Custody seals on sample containers?.....	N		
...If "yes", custody seal intact?.....			
Samples iced?.....	Y		
Temperature of cooler acceptable? (4 deg C +/- 2).	Y	3.1,2.7	
Samples received intact (good condition)?.....	Y		
Volatile samples acceptable? (no headspace).....	Y		
Correct containers used?.....	Y		
Adequate sample volume provided?.....	Y		
Samples preserved correctly?.....	Y		
Samples received within holding-time?.....	Y		
Agreement between COC and sample labels?.....	Y		
Radioactivity at or below background levels?.....	Y		
A Sample Discrepancy Report (SDR) was needed?.....	N		
If samples were shipped was there an air bill #?..	Y		
Sample Custodian Signature/Date.....	Y		



**STL Sacramento**  
 880 Riverside Parkway  
 West Sacramento, CA 95605  
 (910) 373-5600  
 Fax. (916) 372-1059

<b>Report To:</b>		<b>Bill To:</b>	
Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengeers.com	PO #:	
		Quote #:	

**Lab Lot #** \_\_\_\_\_

Package Sealed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Sealed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Received on Ice <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Temperature C of Cooler 2	
Within Hold Time <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Preserv. Indicated Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
pH Check OK Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Res CL2 Check OK Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Sample Labels and COC Agree <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No COC not present	

**Sampler Name:** Eric Ellis  
**Sampler Signature:** [Signature]  
**Project Name:** Characterization of RVAAP 14 AOCs  
**Project Number:** 04-02-0030  
**Project Location:** RVAAP - Ravenna, Ohio  
**Lab PM:** Robert Hbarak

Date Required		Refrig #	
Hard Copy	21 Days	# / Cont	
Fax/Email	14 Days	Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	Propellants (Nitroguanidine/Nitrocellulose)	Additional Analyses / Remarks									
		ASysw-017-SW	12-10-04	1425	W	G	X										

RECEIVED IN GOOD CONDITION UNDER COC  
 DEC 11 2004  
 INI [Signature]

Relinquished by: [Signature]	Company: MKM Engineers	Date: 12/10/04	Time: 1630	Received By:	Company: STL North Canton (Courier)	Date:	Time:
Relinquished by:	Company: STL North Canton (Courier)	Date:	Time:	Received By:	Company: Fed Ex	Date:	Time:
Relinquished by:	Company: FedEx	Date:	Time:	Received By: [Signature]	Company: STL-SAC	Date: 12-11-04	Time: 1045

**Matrix Key**  
 W - Water  
 S - Soil  
 SL - Sludge  
 SO - Solid  
 WW - Wastewater  
 SE - Sediment  
 L - Leachate  
 M - Miscellaneous  
 DL - Drum Liquid  
 DS - Drum Solid  
 W - Wipe  
 A Air  
 OL - Oil  
 O \_\_\_\_\_

Comments: [Signature]

Date Received
Courier:
Hand Delivered:
Bill of Lading:





# STL

## LOT RECEIPT CHECKLIST STL Sacramento

CLIENT MKM PM PH LOG # 30027  
 LOT# (QUANTIMS ID) G4L110237 QUOTE# 00857 LOCATION W22A

DATE RECEIVED 12-11-04 TIME RECEIVED 945 Initials us Date 12-11-04

- DELIVERED BY
- FEDEX
  - AIRBORNE
  - UPS
  - STL COURIER
  - OTHER
  - CA OVERNIGHT
  - GOLDENSTATE
  - BAX GLOBAL
  - COURIERS ON DEMAND
  - CLIENT
  - DHL
  - GO-GETTERS

CUSTODY SEAL STATUS  INTACT  BROKEN  N/A  
 CUSTODY SEAL #(S) 614926 614936

SHIPPING CONTAINER(S)  STL  CLIENT  N/A  
 TEMPERATURE RECORD (IN °C) IR 1  3  OTHER \_\_\_\_\_

COC #(S) \_\_\_\_\_  
 TEMPERATURE BLANK \_\_\_\_\_  
 SAMPLE TEMPERATURE 2°

COLLECTOR'S NAME:  Verified from COC.  Not on COC

pH MEASURED  YES  ANOMALY  N/A

LABELED BY.....

LABELS CHECKED BY.....  
 PEER REVIEW  N/A

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING

- WETCHEM  N/A
- VOA-ENCORES  N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL  N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES  N/A

Clouseau  TEMPERATURE EXCEEDED (2 °C - 6 °C)\*  N/A  
 WET ICE  BLUE ICE  GEL PACK  NO COOLING AGENTS USED  PM NOTIFIED

Notes: \_\_\_\_\_

\*1 Acceptable temperature range for State of Wisconsin samples is <= 4°C.



rpjsckl	Job Sample Receipt Checklist Report		V2
Job Number.: 232723	Location.: 57222	Check List Number.: 1	Description.:
Customer Job ID.....:		Job Check List Date.: 12/14/2004	Date of the Report...: 01/06/2005
Project Number.: 20004694	Project Description.: USACE RVAAP 14 AOCS		Project Manager.....: nsm
Customer.....: MKM Engineers, Inc.		Contact.: Eric Ellis	
Questions ?	(Y/N) Comments		
Chain-of-Custody Present?.....	Y		
Were samples dropped off at or picked up by STL?..	N		
Custody seal on shipping container?.....	Y		
...If "yes", custody seal intact?.....	Y		
Custody seals on sample containers?.....	N		
...If "yes", custody seal intact?.....			
Samples iced?.....	Y		
Temperature of cooler acceptable? (4 deg C +/- 2).	Y	3.5,2.9	
Samples received intact (good condition)?.....	Y		
Volatile samples acceptable? (no headspace).....	Y		
Correct containers used?.....	Y		
Adequate sample volume provided?.....	Y		
Samples preserved correctly?.....	Y		
Samples received within holding-time?.....	Y		
Agreement between COC and sample labels?.....	Y		
Radioactivity at or below background levels?.....	Y		
A Sample Discrepancy Report (SDR) was needed?.....	N		
If samples were shipped was there an air bill #?..	Y		
Sample Custodian Signature/Date.....	Y		

STL Sacramento  
 880 Riverside Parkway  
 West Sacramento, CA 95605  
 (910) 373-5600  
 Fax: (916) 372-1059

Report To:		Bill To:	
Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengengineers.com	PO #:	

Sampler Name: **ERIC ELLIS**  
 Sampler Signature: *[Signature]*  
 Project Name: **Characterization of RVAAP 14 AOCs**  
 Project Number: **04-02-0030**  
 Project Location: **RVAAP - Ravenna, Ohio**  
 Lab PM: **Robert Hbarak**

Lab Lot # \_\_\_\_\_

Package Sealed Yes No	Samples Sealed Yes No
Received on Ice Yes No	Samples Intact Yes No
Temperature C of Cooler	
Within Hold Time Yes No	
Preserv. Indicated Yes No N/A	
pH Check OK Yes No N/A	
Res CL2 Check OK Yes No N/A	
Sample Labels and COC Agree Yes No COC not present	

Date Required	Refr #	#/Cont	Volume	Preserv
Hard Copy 21 Days				
Fax/Email 14 Days				

STL-Sacramento (916) 373-5600

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	Propellants (Nitroglycerine/Nitrocellulose)	Additional Analyses / Remarks	
		NTAmw-118-GW	12-13-04	1130	W	G	x		
		ASYmw-008-GW	12-13-04	1415	W	G	x		

RECEIVED IN GOOD CONDITION  
UNDER COC

**DEC 14 2004**

INI *[Signature]*

Relinquished by: <i>[Signature]</i>	Company: <b>MKM Engineers</b>	Date: <b>12/13/04</b>	Time: <b>1130</b>	Received By:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>FedEx</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <i>[Signature]</i>	Company: <b>STESAC</b>	Date: <b>12/14/04</b>	Time: <b>1230</b>

**Matrix Key**  
 W - Water  
 S - Soil  
 SL - Sludge  
 SO - Solid  
 WW - Wastewater  
 SE - Sediment  
 L - Leachate  
 M - Miscellaneous  
 DL - Drum Liquid  
 DS - Drum Solid  
 W - Wipe  
 A Air  
 OL - Oil  
 O \_\_\_\_\_

Comments:

Date Received \_\_\_\_\_

Courier: \_\_\_\_\_

Hand Delivered: \_\_\_\_\_

Bill of Lading: \_\_\_\_\_



# STL

## LOT RECEIPT CHECKLIST STL Sacramento

CLIENT STL CHICAGO PM 24 LOG # 30052

LOT# (QUANTIMS ID) G4L140252 QUOTE# 60757 LOCATION W17A

DATE RECEIVED 12-14-04 TIME RECEIVED 0930

Initials Ge Date 12-14-04

- DELIVERED BY
- FEDEX
  - AIRBORNE
  - UPS
  - STL COURIER
  - OTHER
  - CA OVERNIGHT
  - GOLDENSTATE
  - BAX GLOBAL
  - COURIERS ON DEMAND
  - CLIENT
  - DHL
  - GO-GETTERS

CUSTODY SEAL STATUS  INTACT  BROKEN  N/A

CUSTODY SEAL #(S) 615016 616796

SHIPPING CONTAINER(S)  STL  CLIENT  N/A

TEMPERATURE RECORD (IN °C) IR 1  3  OTHER

COC #(S) N/A

TEMPERATURE BLANK 4°C

SAMPLE TEMPERATURE 3°C

COLLECTOR'S NAME:  Verified from COC.  Not on COC

pH MEASURED  YES  ANOMALY  N/A

LABELED BY.....

LABELS CHECKED BY.....

PEER REVIEW N/A

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING

- WETCHEM  N/A
- VOA-ENCORES  N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL  N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES  N/A

Clouseau  TEMPERATURE EXCEEDED (2 °C - 6 °C)\*  N/A

WET ICE  BLUE ICE  GEL PACK  NO COOLING AGENTS USED  PM NOTIFIED

Notes: \_\_\_\_\_

\*1 Acceptable temperature range for State of Wisconsin samples is ≤ 4°C.

STL Chicago  
2417 Bond St.  
University Park, IL 60488  
708-534-5200  
Fax: 708-534-5211

**Report To:**

**Bill To:**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
Phone: **330-368-2920**  
Fax: **330-368-2924**  
Email: **eric.ellis@mkmengeers.com**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
Phone: **330-368-2920**  
Fax: **330-368-2924**  
PO #:

Lab Lot # **232789**

15

Sampler Name: **ERIC ELLIS**  
Sampler Signature: *[Signature]*  
Project Name: **Characterization of RVAAP 14 AOCs**  
Project Number: **04-02-0030**  
Project Location: **RVAAP - Ravenna, Ohio**  
Lab PM: **Nancy McDonald**

Packaging Sealed:  Yes  No  
Samples Sealed:  Yes  No  
Received on Ice:  Yes  No  
Samples Intact:  Yes  No  
Temperature C of Cooler: **(2.1) (3.0) (2.2) (2.9) (2.1)**  
Within Hold Time:  Yes  No  
Preservative Indicated:  Yes  No  N/A  
pH Check OK:  Yes  No  N/A  
Res Cl2 Check OK:  Yes  No  N/A  
Sample Labels and COC Agree:  Yes  No  COC not present

Date Required		Refr #	
Hard Copy	21 Days	# of Cont	
Fax/Email	14 Days	Volume	
		Preserv	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Cr+6	Cyanide	Additional Analyses / Remarks
1		L10sw-007-SW	12-14-04	1050	W	G	x	x	x	x	x	x			x	
2		L10sw-008-SW	12-14-04	0945	W	G	x	x	x	x		x			x	
3		L10sw-009-SW	12-14-04	0910	W	G	x	x	x	x		x			x	
4		L10sd-005-SD	12-14-04	1340	SE	G			x	x					x	
5		L10sd-005-ER	12-14-04	0830	W	G			x	x					x	
6		L10sw-004-SW	12-14-04	1325	W	G	x	x	x	x		x			x	
7		L10sd-004-SD	12-14-04	1415	SE	G	x	x	x	x	x	x			x	
8		NTAmw-107-GW	12-14-04	1340	W	G	x	x	x	x	x	x				
9		NTAmw-113-GW	12-14-04	1500	W	G	x	x	x	x	x	x				
10		TRIP BLANK	Lab	Lab	W	G	x									

Relinquished by: <i>[Signature]</i>	Company: <b>MKM Engineers</b>	Date: <b>12/14/04</b>	Time: <b>1630</b>	Received By:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <i>[Signature]</i>	Company: <b>sn</b>	Date: <b>12/15/04</b>	Time: <b>0900</b>

<b>Matrix Key</b>	WW - Wastewater	DL - Drum Liquid	A - Air	Date Received: <b>12-15-04</b>
W - Water	SE - Sediment	DS - Drum Solid	OL - Oil	Courier: <b>PK</b>
S - Soil	L - Leachate	W - Wipe	O - _____	Hand Delivered:
SL - Sludge	M - Miscellaneous			Bill of Lading: <b>See attach</b>
SO - Solid				

rpjsckl		Job Sample Receipt Checklist Report		V2
Job Number.: 232789	Location.: 57222	Check List Number.: 1	Description.:	
Customer Job ID.....:		Job Check List Date.: 12/15/2004	Date of the Report...: 01/10/2005	
Project Number.: 20004694	Project Description.: USACE RVAAP 14 AOCs		Project Manager.....: nam	
Customer.....: MKM Engineers, Inc.		Contact.: Eric Ellis		
Questions ?	(Y/N)	Comments		
Chain-of-Custody Present?.....	Y			
Were samples dropped off at or picked up by STL?..	N			
Custody seal on shipping container?.....	Y			
...If "yes", custody seal intact?.....	Y			
Custody seals on sample containers?.....	N			
...If "yes", custody seal intact?.....				
Samples iced?.....	Y			
Temperature of cooler acceptable? (4 deg C +/- 2).	Y	2.1,3.0,2.2,2.4,2.1		
Samples received intact (good condition)?.....	Y			
Volatile samples acceptable? (no headspace).....	Y			
Correct containers used?.....	Y			
Adequate sample volume provided?.....	Y			
Samples preserved correctly?.....	Y			
Samples received within holding-time?.....	Y			
Agreement between COC and sample labels?.....	Y			
Radioactivity at or below background levels?.....	Y			
A Sample Discrepancy Report (SDR) was needed?.....	N			
If samples were shipped was there an air bill #?..	Y			
Sample Custodian Signature/Date.....	Y			



**STL**

**STL Sacramento**  
 880 Riverside Parkway  
 West Sacramento, CA 95605  
 (910) 373-5600  
 Fax: (916) 372-1059

Report To:		Bill To:	
Contact:	<b>Eric Ellis</b>	Contact:	<b>Eric Ellis</b>
Company:	<b>MKM Engineers, Inc.</b>	Company:	<b>MKM Engineers, Inc.</b>
Address:	<b>8451 State Route 5 Ravenna, OH 44266</b>	Address:	<b>8451 State Route 5 Ravenna, OH 44266</b>
Phone:	<b>330-358-2920</b>	Phone:	<b>330-358-2920</b>
Fax:	<b>330-358-2924</b>	Fax:	<b>330-358-2924</b>
Email:	<b>eric.ellis@mkmengengineers.com</b>	PO #:	

**Lab Lot #**

Package Sealed Yes No	Samples Sealed Yes No
Received on Ice Yes No	Samples Intact Yes No
Temperature C of Cooler	
Within Hold Time Yes No	
Preserv. Indicated Yes No N/A	
pH Check OK Yes No N/A	
Res CL2 Check OK Yes No N/A	
Sample Labels and COC Agree Yes No COC not present	

Sampler Name: **ERIC ELLIS**  
 Sampler Signature: *[Signature]*  
 Project Name: **Characterization of RVAAP 14 AOCs**  
 Project Number: **04-02-0030**  
 Project Location: **RVAAP - Ravenna, Ohio**  
 Lab PM: **Robert Hbarak**

Date Required		Refrg #	
Hard Copy	21 Days	# / Cont	
Fax/Email	14 Days	Volume	
		Preserv	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	Propellants (Nitroglycerine/Nitrocellulose)	Additional Analyses / Remarks																	
		L10sw-007-SW	12-14-04	1050	W	G	x																		
		L10sd-004-SD	12-14-04	1415	SE	G	x																		
		NTAmw-107-GW	12-14-04	1340	W	G	x																		
		NTAmw-113-GW	12-14-04	1500	W	G	x																		

RECEIVED IN GOOD CONDITION UNDER COC

DEC 15 2004

INI: *GC*

Relinquished by: <i>[Signature]</i>	Company: <b>MKM Engineers</b>	Date: 12/14/04	Time: 1630	Received By: <i>[Signature]</i>	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <i>[Signature]</i>	Company: <i>SESKC</i>	Date: 12/15/04	Time: 1005

**Matrix Key**  
 W - Water  
 S - Soil  
 SL - Sludge  
 SO - Solid  
 WW - Wastewater  
 SE - Sediment  
 L - Leachate  
 M - Miscellaneous  
 DL - Drum Liquid  
 DS - Drum Solid  
 W - Wipe  
 A Air  
 OL - Oil  
 O \_\_\_\_\_

Comments:

Date Received:

Courier:

Hand Delivered:

Bill of Lading:





# STL

## LOT RECEIPT CHECKLIST STL Sacramento

CLIENT STL SACRAMENTO PM ea LOG # 30068

LOT# (QUANTIMS ID) 64150216 QUOTE# 60857 LOCATION wrb

DATE RECEIVED 12-15-04 TIME RECEIVED 0950 Initials ea Date 12-15-04

- DELIVERED BY
- FEDEX
  - AIRBORNE
  - UPS
  - STL COURIER
  - OTHER
  - CA OVERNIGHT
  - GOLDENSTATE
  - BAX GLOBAL
  - COURIERS ON DEMAND
  - CLIENT
  - DHL
  - GO-GETTERS

CUSTODY SEAL STATUS  INTACT  BROKEN  N/A

CUSTODY SEAL #(S) 616716 616726

SHIPPING CONTAINER(S)  STL  CLIENT  N/A

TEMPERATURE RECORD (IN °C) IR 1  3  OTHER

COC #(S) N/A

TEMPERATURE BLANK 5°C

SAMPLE TEMPERATURE 4°C

COLLECTOR'S NAME:  Verified from COC  Not on COC

pH MEASURED  YES  ANOMALY  N/A

LABELED BY.....

LABELS CHECKED BY.....

PEER REVIEW  N/A

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING

- WETCHEM  N/A
- VOA-ENCORES  N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL  N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES  N/A

Clouseau  TEMPERATURE EXCEEDED (2 °C - 6 °C)\*  N/A

WET ICE  BLUE ICE  GEL PACK  NO COOLING AGENTS USED  PM NOTIFIED

Notes: \_\_\_\_\_

\*1. Acceptable temperature range for State of Wisconsin samples is <4°C.

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

<b>Report To:</b>		<b>Bill To:</b>	
Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengineers.com	PO #:	
		Quote #:	

Lab Lot # **232829**

121

Sampler Name:	<b>ERIC ELLIS</b>
Sampler Signature:	<i>[Signature]</i>
Project Name:	Characterization of RVAAP 14 AOCs
Project Number:	04-02-0030
Project Location:	RVAAP - Ravenna, Ohio
Lab PM:	Nancy McDonald

Package Sealed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Sealed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Received on Ice <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Temperature C of Cooler <b>(4.0) (3.5) (3.9) (3.2)</b>	
Within Hold Time: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Preserv. Indicated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
pH Check OK <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Res Cl. 2 Check OK <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Sample Labels and GOC Agree <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> COC not present	

Date Required		Refrig. #	
Hard Copy	21 Days	# / Cont.	
Fax/Email	14 Days	Volumes	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Peat/PCBs	Nitrate	Cr+6	Cyanide	Additional Analyses / Remarks
1		L10sw-002-SW	12-15-04	0850	W	G	x	x	x	x		x			x	Only 2-40mL VOA sent.
2		L10sw-002-DUP	12-15-04	0850	W	G	x	x	x	x		x			x	Only 2-40mL VOA sent.
1	x	L10sw-002-MS/MSD	12-15-04	0850	W	G	x	x	x	x		x			x	Only 2-40mL VOA sent.
3		L10sw-006-SW	12-15-04	1115	W	G	x	x	x	x		x			x	
4		L10sd-006-SD	12-15-04	1217	SE	G			x	x					x	Please see comment below...
5		TRIP BLANK	Lab	Lab	W	G	x									

Relinquished by: <i>[Signature]</i>	Company: <b>MKM Engineers</b>	Date: <b>12/15/04</b>	Time: <b>1630</b>	Received By:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <i>[Signature]</i>	Company: <b>STL</b>	Date: <b>12-16-04</b>	Time: <b>0900</b>

<b>Matrix Key</b> W - Water S - Soil SL - Sludge SO - Solid	WW - Wastewater SE - Sediment L - Leachate M - Miscellaneous	DL - Drum Liquid DS - Drum Solid W - Wipe	A - Air OL - Oil O -	Comments: Please call if sediment quantity is not sufficient - (limited by sediment supply)	Date Received: <b>12-16-04</b> Courier: <b>FX</b> Hand Delivered: Bill of Lading: <b>See attach</b>
---	---	---	----------------------------	--	--

Job Number.: 232829 Location.: 57222 Check List Number.: 1 Description.:  
 Customer Job ID.....: Job Check List Date.: 12/16/2004 Date of the Report...: 01/10/2005  
 Project Number.: 20004694 Project Description.: USACE RVAAP 14 ADCS Project Manager.....: nsm  
 Customer.....: MKM Engineers, Inc. Contact.: Eric Ellis

Questions ? (Y/N) Comments

- Chain-of-Custody Present?..... Y
- Were samples dropped off at or picked up by STL?.. N
- Custody seal on shipping container?..... Y
- ...If "yes", custody seal intact?..... Y
- Custody seals on sample containers?..... N
- ...If "yes", custody seal intact?.....
- Samples iced?..... Y
- Temperature of cooler acceptable? (4 deg C +/- 2). Y 4.0,3.5,3.9,3.2
- Samples received intact (good condition)?..... Y
- Volatile samples acceptable? (no headspace)..... Y
- Correct containers used?..... Y
- Adequate sample volume provided?..... Y
- Samples preserved correctly?..... Y
- Samples received within holding-time?..... Y
- Agreement between COC and sample labels?..... Y
- Radioactivity at or below background Levels?..... Y
- A Sample Discrepancy Report (SDR) was needed?..... N
- If samples were shipped was there an air bill #?.. Y
- Sample Custodian Signature/Date..... Y



**STL Sacramento**  
 880 Riverside Parkway  
 West Sacramento, CA 95605  
 (910) 373-5600  
 Fax: (916) 372-1059

**Report To:**

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengineers.com	PO #:	

**Bill To:**

Contact:	Eric Ellis
Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920
Fax:	330-358-2924
PO #:	
Quote #:	

**Lab Lot #**

Package Sealed Yes No	Samples Sealed Yes No
Received on Ice Yes No	Samples Intact Yes No
Temperature C of Cooler	
Within Hold Time Yes No	
Preserv. Indicated Yes No N/A	
pH Check OK Yes No N/A	
Res Cl2 Check OK Yes No N/A	
Sample Labels and COC Agree Yes No COC not present	

Sampler Name:	ERIC ELLIS
Sampler Signature:	<i>[Signature]</i>
Project Name:	Characterization of RVAAP 14 AOCs
Project Number:	04-02-0030
Project Location:	RVAAP - Ravenna, Ohio
Lab PM:	Robert Hbarak

Date Required	21 Days	Refr #	
Hard Copy	14 Days	# / Cont	
Fax/Email		Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	Propellants (Nitroguanidine/Nitrocellulose)	Additional Analyses / Remarks
		NTAmw-112-GW	12-16-04	1040	W	G	x	
		NTAmw-111-GW	12-16-04	1135	W	G	x	
		NTAmw-117-GW	12-16-04	1335	W	G	x	

RECEIVED IN GOOD CONDITION  
 UNDER COC  
 DEC 17 2004  
 IAN *[Signature]*

Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:
<i>[Signature]</i>	MKM Engineers	12/16/04	1530		STL North Canton (Courier)		
Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:
	STL North Canton (Courier)				Fed Ex		
Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:
	FedEx			<i>[Signature]</i>	STL SAC	12/17/04	1430

**Matrix Key**  
 W - Water  
 S - Soil  
 SL - Sludge  
 SO - Solid  
 WW - Wastewater  
 SE - Sediment  
 L - Leachate  
 M - Miscellaneous  
 DL - Drum Liquid  
 DS - Drum Solid  
 W - Wipe  
 A Air  
 OL - Oil  
 O \_\_\_\_\_

Comments:

Date Received

Courier:

Hand Delivered:

Bill of Lading:



# STL

### LOT RECEIPT CHECKLIST STL Sacramento

CLIENT STL CHICAGO PM PH LOG # 30133LOT# (QUANTIMS ID) G4L170304 QUOTE# 60857 LOCATION W33DATE RECEIVED 12-17-04 TIME RECEIVED 0945 Initials GC Date 12-17-04

DELIVERED BY  FEDEX  CA OVERNIGHT  CLIENT  
 AIRBORNE  GOLDENSTATE  DHL  
 UPS  BAX GLOBAL  GO-GETTERS  
 STL COURIER  COURIERS ON DEMAND  
 OTHER

CUSTODY SEAL STATUS  INTACT  BROKEN  N/A  
 CUSTODY SEAL #(S) 616466

SHIPPING CONTAINER(S)  STL  CLIENT  N/A  
 TEMPERATURE RECORD (IN °C) IR 1  3  OTHER

COC #(S) N/A  
 TEMPERATURE BLANK 2.0  
 SAMPLE TEMPERATURE 2.0

COLLECTOR'S NAME:  Verified from COC.  Not on COC

pH MEASURED  YES  ANOMALY  N/A

LABELED BY.....  
 LABELS CHECKED BY.....  
 PEER REVIEW N/A

SHORT HOLD TEST NOTIFICATION SAMPLE RECEIVING  
 WETCHEM  N/A  
 VOA-ENCORES  N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL  N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES  N/A

Clouseau  TEMPERATURE EXCEEDED (2 °C - 6 °C)<sup>\*1</sup>  N/A  
 WET ICE  BLUE ICE  GEL PACK  NO COOLING AGENTS USED  PM NOTIFIED

Notes: \_\_\_\_\_  
 \_\_\_\_\_

Initials	Date
GC	12-17-04

\*1 Acceptable temperature range for State of Wisconsin samples is ≤ 4°C.

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

Report To:

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5  
Ravenna, OH 44266**  
Phone: **330-358-2920**  
Fax: **330-358-2924**  
Email: **eric.ellis@mkmengeers.com**

Bill To:

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5  
Ravenna, OH 44266**  
Phone: **330-358-2920**  
Fax: **330-358-2924**  
PO #:  
Quote #:

Lab Lot # **232876**

Sampler Name: **ERIC ELLIS**  
Sampler Signature: *[Signature]*  
Project Name: **Characterization of RVAAP 14 AOCs**  
Project Number: **04-02-0030**  
Project Location: **RVAAP - Ravenna, Ohio**  
Lab PM: **Nancy McDonald**

Package Sealed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Sealed <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Received on Ice <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Temperature C of Cooler <b>(3.0) (3.7)</b>	
Wipe Field Time <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Presamp. Indicated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
pH Check OK <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Res CL2 Check OK <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Sample Labels and COC Agree <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> COC not present	

Date Required	21 Days	Refq #																	
Hard Copy	14 Days	# of Cont.																	
Fax/Email		Volume																	
		Presery																	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Cr+6	Cyanide	Additional Analyses / Remarks
1		NTArmw-112-GW	12-16-04	1040	W	G	x	x	x	x	x	x				
2		NTArmw-111-GW	12/16/04	1135	W	G	x	x	x	x	x	x				
3		NTArmw-117-GW	12-16-04	1335	W	G	x	x	x	x	x	x				
4		TRIP BLANK	Lab	Lab	W	G	x									

Relinquished by: <i>[Signature]</i>	Company: <b>MKM Engineers</b>	Date: <b>12/16/04</b>	Time: <b>1530</b>	Received By:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <i>[Signature]</i>	Company: <i>[Signature]</i>	Date: <b>12/17/04</b>	Time: <b>1000</b>

Matrix Key: W - Water, S - Soil, SL - Sludge, SO - Solid, WW - Wastewater, SE - Sediment, L - Leachate, M - Miscellaneous, DL - Drum Liquid, DS - Drum Solid, W - Wipe, A Air, OL - Oil, O \_\_\_\_\_

Comments: Please call if sediment quantity is not sufficient - (limited by sediment supply)

Date Received: **12/17/04**  
Courier: **PK**  
Hand Delivered:  
Bill of Lading: **see attach**

rpjckl	Job Sample Receipt Checklist Report	V2
Job Number.: 232876	Location.: 57222	Check List Number.: 1
Customer Job ID.....:	Job Check List Date.: 12/17/2004	Description.: Date of the Report...: 01/07/2005
Project Number.: 20004694	Project Description.: USACE RVAAP 14 AOCS	Project Manager.....: nsm
Customer.....: MKM Engineers, Inc.	Contact.: Eric Ellis	
Questions ?	(Y/N) Comments	
Chain-of-Custody Present?.....	Y	
Were samples dropped off at or picked up by STL?..	N	
Custody seal on shipping container?.....	Y	
...If "yes", custody seal intact?.....	Y	
Custody seals on sample containers?.....	N	
...If "yes", custody seal intact?.....		
Samples iced?.....	Y	
Temperature of cooler acceptable? (4 deg C +/- 2).	Y 3.0,3.3	
Samples received intact (good condition)?.....	Y	
Volatile samples acceptable? (no headspace).....	Y	
Correct containers used?.....	Y	
Adequate sample volume provided?.....	Y	
Samples preserved correctly?.....	Y	
Samples received within holding-time?.....	Y	
Agreement between DOC and sample labels?.....	Y	
Radioactivity at or below background levels?.....	Y	
A Sample Discrepancy Report (SDR) was needed?.....	N	
If samples were shipped was there an air bill #?..	Y	
Sample Custodian Signature/Date.....	Y	

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax. 708-534-5211

**Report To:**

**Bill To:**

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengeers.com	PO #:	
Quote #:			

Lab Lot # 232979

Sampler Name:	<u>ERIC ELLIS</u>
Sampler Signature:	<u>[Signature]</u>
Project Name:	Characterization of RVAAP 14 AOCs
Project Number:	04-02-0030
Project Location:	RVAAP - Ravenna, Ohio
Lab PM:	Nancy McDonald

Package Sealed	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Samples Sealed	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Received on Ice	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Samples Intact	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Temperature C of Cooler	(3.7) (4.0) (3.4)		
Within Hold Time	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Preserv. Indicated	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
pH Check OK	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Res CL2 Check OK	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Sample Labels and COC Agree	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> COC not present		

Date Required		Rating #	
Hard Copy	21 Days	# / Cont.	
Fax/Email	14 Days	Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Additional Analyses / Remarks
<u>1</u>		LL8mw-004-GW	12-21-04	0930	W	G	x	x	x	x		x	x	
<u>2</u>		LL8mw-002-GW	12-21-04	1110	W	G	x	x	x	x		x	x	
<u>3</u>		TRIP BLANK	LAB	LAB	W	G	x							
<u>4</u>		NTArm-108-GW	12-21-04	1405	W	G	x	x	x	x		x	x	
<u>5</u>		NTArm-109-GW	12-21-04	1500	W	G	x	x	x	x		x	x	

Relinquished by: <u>[Signature]</u>	Company: MKM Engineers	Date: <u>12/21/04</u>	Time: <u>1630</u>	Received By:	Company: STL North Canton (Courier)	Date:	Time:
Relinquished by:	Company: STL North Canton (Courier)	Date:	Time:	Received By:	Company: Fed Ex	Date:	Time:
Relinquished by:	Company: FedEx	Date:	Time:	Received By: <u>[Signature]</u>	Company: <u>[Signature]</u>	Date: <u>12/23/04</u>	Time: <u>1100</u>

Matrix Key	WW - Wastewater	DL - Drum Liquid	A - Air	Comments:	Date Received
W - Water	SE - Sediment	DS - Drum Solid	OL - Oil	Please call if sediment quantity is not sufficient - (limited by sediment supply)	<u>12-22-04</u>
S - Soil	L - Leachate	W - Wipe	O -		Courier: <u>[Signature]</u>
SL - Sludge	M - Miscellaneous				Hand Delivered:
SG - Solid					Bill of Lading: <u>see attach.</u>

10



Job Number.: 232979	Location.: 57222	Check List Number.: 1	Description.:
Customer Job ID.....:	Job Check List Date.: 12/22/2004	Date of the Report...: 01/11/2005	Project Manager.....: nsm
Project Number.: 20004694	Project Description.: USACE RVAAP 14 ADCS	Contact.: Eric Ellis	
Customer.....: MKM Engineers, Inc.			

Questions ?	(Y/N)	Comments
Chain-of-Custody Present?.....	Y	
Were samples dropped off at or picked up by STL?..	N	
Custody seal on shipping container?.....	Y	
...If "yes", custody seal intact?.....	Y	
Custody seals on sample containers?.....	N	
...If "yes", custody seal intact?.....		
Samples iced?.....	Y	
Temperature of cooler acceptable? (4 deg C +/- 2). Y		3,7,4.0,3.4
Samples received intact (good condition)?.....	Y	
Volatile samples acceptable? (no headspace).....	Y	
Correct containers used?.....	Y	
Adequate sample volume provided?.....	Y	
Samples preserved correctly?.....	Y	
Samples received within holding-time?.....	Y	
Agreement between COC and sample labels?.....	Y	
Radioactivity at or below background levels?.....	Y	
A Sample Discrepancy Report (SDR) was needed?.....	N	
If samples were shipped was there an air bill #?..	Y	
Sample Custodian Signature/Date.....	Y	



STL Sacramento  
 880 Riverside Parkway  
 West Sacramento, CA 95605  
 (910) 373-5600  
 Fax. (916) 372-1059

Report To:

Contact: Eric Ellis  
 Company: MKM Engineers, Inc.  
 Address: 8451 State Route 5  
 Ravenna, OH 44266  
 Phone: 330-358-2920  
 Fax: 330-358-2924  
 Email: eric.ellis@mkmengeers.com

Bill To:

Contact: Eric Ellis  
 Company: MKM Engineers, Inc.  
 Address: 8451 State Route 5  
 Ravenna, OH 44266  
 Phone: 330-358-2920  
 Fax: 330-358-2924  
 PO #:

Lab Lot #

Package Sealed: Yes No Samples Sealed: Yes No  
 Received on Ice: Yes No Samples Intact: Yes No  
 Temperature C of Cooler  
 Within Hold Time: Yes No  
 Preserv. Indicated: Yes No N/A  
 pH Check OK: Yes No N/A  
 Res CL2 Check OK: Yes No N/A  
 Sample Labels and COC Agree: Yes No COC not present

Sampler Name: ERIC ELLIS  
 Sampler Signature: [Signature]  
 Project Name: Characterization of RVAAP 14 AOCs  
 Project Number: 04-02-0030  
 Project Location: RVAAP - Ravenna, Ohio  
 Lab PM: Robert Hbarak

Date Required	21 Days	Refr. #	
Hard Copy	14 Days	# / Cont.	
Fax/Email		Volume	
		Preserv	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	Propellants (Nitrogandine/ Nitrocellulose)	Additional Analyses / Remarks
		LL8mw-002-GW	12-21-04	1110	W	G	x	
		NTAmw-108-GW	12-21-04	1405	W	G	x	
		NTAmw-109-GW	12-21-04	1500	W	G	x	

RECEIVED IN GOOD CONDITION UNDER COC  
 DEC 23 2004  
 INI: [Signature]

Relinquished by: [Signature] Company: MKM Engineers Date: 12/21/04 Time: 11:30  
 Received By: [Signature] Company: STL North Canton (Courier) Date: Time:  
 Relinquished by: Company: STL North Canton (Courier) Date: Time:  
 Received By: [Signature] Company: Fed Ex Date: Time:  
 Relinquished by: Company: FedEx Date: Time:  
 Received By: [Signature] Company: Date: 12/23/04 Time: 10:00

Matrix Key  
 W - Water WW - Wastewater DL - Drum Liquid A - Air  
 S - Soil SE - Sediment DS - Drum Solid OL - Oil  
 SL - Sludge L - Leachate W - Wipe O -  
 SO - Solid M - Miscellaneous

Comments:  
 Date Received  
 Courier:  
 Hand Delivered:  
 Bill of Lading:

STL Chicago is part of Severn Trent Laboratories, Inc.



# STL

## LOT RECEIPT CHECKLIST STL Sacramento

CLIENT GR-CHICAGO PM PA LOG # 30215  
 LOT# (QUANTIMS ID) 041270182 QUOTE# 60857 LOCATION WARD

		Initials	Date
DATE RECEIVED	<u>12-23-04</u>	<u>GE</u>	<u>12-23-04</u>
TIME RECEIVED	<u>0940</u>		
DELIVERED BY	<input checked="" type="checkbox"/> FEDEX <input type="checkbox"/> CA OVERNIGHT <input type="checkbox"/> CLIENT <input type="checkbox"/> AIRBORNE <input type="checkbox"/> GOLDENSTATE <input type="checkbox"/> DHL <input type="checkbox"/> UPS <input type="checkbox"/> BAX GLOBAL <input type="checkbox"/> GO-GETTERS <input type="checkbox"/> STL COURIER <input type="checkbox"/> COURIERS ON DEMAND <input type="checkbox"/> OTHER		
CUSTODY SEAL STATUS	<input checked="" type="checkbox"/> INTACT <input type="checkbox"/> BROKEN <input type="checkbox"/> N/A		
CUSTODY SEAL #(S)	<u>066516, 066506</u>		
SHIPPING CONTAINER(S)	<input type="checkbox"/> STL <input checked="" type="checkbox"/> CLIENT <input type="checkbox"/> N/A		
TEMPERATURE RECORD (IN °C)	IR    1 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> <input type="checkbox"/> OTHER		
COC #(S)	<u>NA</u>		
TEMPERATURE BLANK	<u>NA</u>		
SAMPLE TEMPERATURE	<u>4°C</u>		
COLLECTOR'S NAME:	<input checked="" type="checkbox"/> Verified from COC. <input type="checkbox"/> Not on COC		
PH MEASURED	<input type="checkbox"/> YES <input type="checkbox"/> ANOMALY <input checked="" type="checkbox"/> N/A		
LABELED BY.....			
LABELS CHECKED BY.....			
PEER REVIEW	<input checked="" type="checkbox"/> NA		
SHORT HOLD TEST NOTIFICATION			
	SAMPLE RECEIVING		
	WETCHEM <input checked="" type="checkbox"/> N/A		
	VOA-ENCORES <input checked="" type="checkbox"/> N/A		
<input type="checkbox"/> METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL	<input checked="" type="checkbox"/> N/A		
<input checked="" type="checkbox"/> COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES	<input type="checkbox"/> N/A		
<input type="checkbox"/> Clouseau	<input type="checkbox"/> TEMPERATURE EXCEEDED (2 °C - 6 °C)* <input checked="" type="checkbox"/> N/A		
<input type="checkbox"/> WET ICE	<input type="checkbox"/> BLUE ICE <input type="checkbox"/> GEL PACK <input type="checkbox"/> NO COOLING AGENTS USED <input type="checkbox"/> PM NOTIFIED		
Notes:			

\*1 Acceptable temperature range for State of Wisconsin samples is ≤ 4°C.

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

**Report To:**

**Bill To:**

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengineers.com	PO #:	

Lab Lot # 233126

Package Sealed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Sealed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Received on Ice <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Temperature C of Cooler (2.9) (3.3) (2.7) (3.1)	
Within Hold Time <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Problems Indicated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
pH Check OK <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Res. Q12 Check OK <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples Labels and COC Agree <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> COC not present	

Sampler Name: POL FLIS  
 Sampler Signature: [Signature]  
 Project Name: Characterization of RVAAP 14 AOCs  
 Project Number: 04-02-0030  
 Project Location: RVAAP - Ravenna, Ohio  
 Lab PM: Nancy McDonald

Date Required		Relig. #	
Hard Copy	21 Days	# / Cont.	
Fax/Email	14 Days	Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Additional Analyses / Remarks
1		LL8mw-001-GW	01-03-05	1000	W	G	x	x	x	x		x	x	
2		LL8mw-001-DUP	01-03-05	1000	W	G	x	x	x	x		x	x	
3	x	LL8mw-001-MS/MSD	01-03-05	1000	W	G	x	x	x	x		x	x	
4		TRIP BLANK	Lab	Lab	W	G	x							
5		LL8mw-003-GW	01-03-05	1400	W	G	x	x	x	x		x	x	
		LL5mw-008-GW	01-03-05	1500	W	G	x	x	x	x		x	x	

Relinquished by: <u>[Signature]</u>	Company: <b>MKM Engineers</b>	Date: <u>1/3/05</u>	Time: <u>1630</u>	Received By:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <u>[Signature]</u>	Company: <b>SN</b>	Date: <u>1/4/05</u>	Time: <u>0900</u>

**Matrix Key**  
 W - Water      WW - Wastewater      DL - Drum Liquid      A - Air  
 S - Silt        SE - Sediment        DS - Drum Solid      OL - Oil  
 SL - Sludge    L - Leachate         W - Wipe              O - \_\_\_\_\_  
 SO - Solid      M - Miscellaneous

Comments: Please call if sediment quantity is not sufficient - (limited by sediment supply)

Date Received: 1/4/05  
 Courier: FX  
 Hand Delivered: \_\_\_\_\_  
 Bill of Lading: see attach

rpjsckl	Job Sample Receipt Checklist Report	V2
Job Number.: 233126	Location.: 57222	Check List Number.: 1
Customer Job ID.....:	Job Check List Date.: 01/04/2005	Description.: Date of the Report...: 01/14/2005
Project Number.: 20004694	Project Description.: USACE RVAAP 14 AOCS	Project Manager.....: nsm
Customer.....: MKM Engineers, Inc.	Contact.: Eric Ellis	
Questions ?	(Y/N)	Comments
Chain-of-Custody Present?.....	Y	
Were samples dropped off at or picked up by STL?..	N	
Custody seal on shipping container?.....	Y	
...If "yes", custody seal intact?.....	Y	
Custody seals on sample containers?.....	N	
...If "yes", custody seal intact?.....		
Samples iced?.....	Y	
Temperature of cooler acceptable? (4 deg C +/- 2). Y		2.9,3.3,2.7,3.1
Samples received intact (good condition)?.....	Y	
Volatile samples acceptable? (no headspace).....	Y	
Correct containers used?.....	Y	
Adequate sample volume provided?.....	Y	
Samples preserved correctly?.....	Y	
Samples received within holding-time?.....	Y	
Agreement between COC and sample labels?.....	Y	
Radioactivity at or below background levels?.....	Y	
A Sample Discrepancy Report (SDR) was needed?.....	N	
If samples were shipped was there an air bill #?..	Y	
Sample Custodian Signature/Date.....	Y	

STL Chicago  
2417 Bond St.  
University Park, IL 60488  
708-534-5200  
Fax: 708-534-5211

**Report To:**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
Phone: **330-358-2920**  
Fax: **330-358-2924**  
Email: **eric.ellis@mkmengineers.com**

**Bill To:**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
Phone: **330-358-2920**  
Fax: **330-358-2924**  
PO #:  
Quote #:

Lab Lot # **233/68**

Sampler Name: **ERIC ELLIS**  
Sampler Signature: *[Signature]*  
Project Name: **Characterization of RVAAP 14 AOCs**  
Project Number: **04-02-0030**  
Project Location: **RVAAP - Ravenna, Ohio**  
Lab PM: **Nancy McDonald**

Package Sealed	Yes	No	Samples Sealed	Yes	No
Received on Ice	Yes	No	Samples Intact	Yes	No
Temperature C of Cooler					

Within Hold Time	Yes	No	
Preserv. Indicated	Yes	No	N/A
pH Check OK	Yes	No	N/A
Res GL2 Check OK	Yes	No	N/A

Date Required	21 Days	Refr. #	
Hard Copy	14 Days	#/Cont.	
Fax/Email		Volume	
		Preserv.	
Sample Labels and COC Agree		COC not present	

Laboratory ID	MS/MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Cr+6	Total Susp. Solids (TSS)	TCLP % Solids	Additional Analyses / Remarks
1		LL5mw-001-GW	01-04-05	1115	W	G	x	x	x	x	x	x	x				
2		LL5mw-005-GW	01-04-05	0940	W	G	x	x	x	x		x	x				
3		LL5mw-004-ER	01-04-05	0840	W	G	x	x	x	x		x	x				
4		LL5mw-004-GW	01-04-05	1415	W	G	x	x	x	x		x	x				
5		LL5mw-004-DUP	01-04-05	1415	W	G	x	x	x	x		x	x				
6	x	LL5mw-004-MS/MSD	01-04-05	1415	W	G	x	x	x	x		x	x				Continued on next page... (Cr+6-hold time!)
7		RVAAP14-001-WW	01-04-05	1330	W	G	x	x	x	x	x			x	x	x	Continued on next page...
8		RVAAP14-001-WD	01-04-05	1305	S	G			x		x			x			Only 1 VOA Vial included
		TRIP BLANK	Lab	Lab	W	G	x										

Relinquished by: <i>[Signature]</i>	Company: <b>MKM Engineers</b>	Date: <b>1/4/05</b>	Time: <b>1630</b>	Received By: <i>[Signature]</i>	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <i>[Signature]</i>	Company: <b>SPR</b>	Date: <b>1-5-05</b>	Time: <b>1035</b>

<b>Matrix Key</b>	WW - Wastewater	DL - Drum Liquid	A - Air	Sampled: Please call if sediment quantity is not sufficient - (limited by sediment supply)	Date Received
W - Water	SE - Sediment	DS - Drum Solid	OL - Oil		Courier:
S - Soil	L - Leachate	W - Wipe	O		Hand Delivered:
SL - Sludge	M - Miscellaneous				Bill of Lading:
SO - Solid					

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

<b>Report To:</b>		<b>Bill To:</b>	
Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengeers.com	PO #:	

Lab Lot # 233168

Sampler Name:	<u>Eric Ellis</u>
Sampler Signature:	<u>[Signature]</u>
Project Name:	Characterization of RVAAP 14 AOCs
Project Number:	04-02-0030
Project Location:	RVAAP - Ravenna, Ohio
Lab PM:	Nancy McDonald

Package Sealed	Yes	No	Samples Sealed	Yes	No
Received on Ice	Yes	No	Samples Intact	Yes	No
Temperature C of Cooler					
Within Hold Time					
Preserv. Indicated					
pH Check OK					
Res GL2 Check OK					
Sample Labels and COC Agree					

Date Required	21 Days	Refr #	
Hard Copy	14 Days	# / Cont.	
Fax/Email		Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	TPH GRO (8016)	TPH DRO (8016)	Reactive CN & Sulfide	Reactivity	Corrosivity	Ignitability	Full TCLP (Metals, Pesticides, SVOC, VOC)	Pesticides	PCBs	Additional Analyses / Remarks
																<u>6</u>
<u>7</u>		RVAAP14-001-WD	01-04-05	1305	S	G	x	x		x	x	x	x		x	Waste Characterization

Relinquished by:	Company: <b>MKM Engineers</b>	Date: <u>1/4/05</u>	Time: <u>1630</u>	Received By:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <u>[Signature]</u>	Company: <u>STL</u>	Date: <u>1-5-05</u>	Time: <u>1035</u>

<b>Matrix Key</b>	WW - Wastewater	DL - Drum Liquid	A - Air
W - Water	SE - Sediment	DS - Drum Solid	OL - Oil
S - Soil	L - Leachate	W - Wipe	O -
SL - Sludge	M - Miscellaneous		
SO - Solid			

rpjckl	Job Sample Receipt Checklist Report	V2
Job Number.: 233168	Location.: 57222	Check List Number.: 1
Customer Job ID.....:	Job Check List Date.: 01/05/2005	Description.:
Project Number.: 20004694	Project Description.: USACE RVAAP 14 AOCs	Date of the Report...: 01/18/2005
Customer.....: MKM Engineers, Inc.	Contact.: Eric Ellis	Project Manager.....: nsm
Questions ?	(Y/N)	Comments
Chain-of-Custody Present?.....	Y	
Were samples dropped off at or picked up by STL?..	N	
Custody seal on shipping container?.....	Y	
...If "yes", custody seal intact?.....	Y	
Custody seals on sample containers?.....	N	
...If "yes", custody seal intact?.....		
Samples iced?.....	Y	
Temperature of cooler acceptable? (4 deg C +/- 2).	Y	3.6,2.8,3.0,2.6,2.0,2.4,2.8
Samples received intact (good condition)?.....	Y	
Volatile samples acceptable? (no headspace).....	Y	
Correct containers used?.....	Y	
Adequate sample volume provided?.....	Y	
Samples preserved correctly?.....	Y	
Samples received within holding-time?.....	Y	
Agreement between COC and sample labels?.....	Y	
Radioactivity at or below background levels?.....	Y	
A Sample Discrepancy Report (SDR) was needed?.....	N	
If samples were shipped was there an air bill #?..	Y	
Sample Custodian Signature/Date.....	Y	





STL Sacramento  
880 Riverside Parkway  
West Sacramento, CA 95605  
(910) 373-5600  
Fax: (916) 372-1059

<b>Report To:</b>	Contact: Eric Ellis	<b>Bill To:</b>	Contact: Eric Ellis
	Company: MKM Engineers, Inc.		Company: MKM Engineers, Inc.
	Address: 8451 State Route 5		Address: 8451 State Route 5
	Ravenna, OH 44266		Ravenna, OH 44266
	Phone: 330-358-2920		Phone: 330-358-2920
	Fax: 330-358-2924		Fax: 330-358-2924
	Email: eric.ellis@mkmengeers.com		PO #:
			Quote #:

**Lab Lot #** \_\_\_\_\_

Package Sealed	Yes	No	Samples Sealed	Yes	No
Received on Ice	Yes	No	Samples Intact	Yes	No
Temperature C of Cooler					
Within Hold Time					
Yes No					
Preserv. Indicated					
Yes No N/A					
pH Check OK					
Yes No N/A					
Res CL2 Check OK					
Yes No N/A					
Sample Labels and COC Agree					
Yes No COC not present					

Sampler Name: **ERIC ELLIS**  
 Sampler Signature: *[Signature]*  
 Project Name: **Characterization of RVAAP 14 AOCs**  
 Project Number: **04-02-0030**  
 Project Location: **RVAAP - Ravenna, Ohio**  
 Lab PM: **Robert Hbarak**

Date Required		Refrg #	
Hard Copy	21 Days	#/ Cont.	
Fax/Email	14 Days	Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	Propellants (Nitroguanidine/ Nitrocellulose)	Additional Analyses / Remarks
		LL5mw-001-GW	01-04-05	1115	W	G	x	
		RVAAP14-001-WW	01-04-05	1330	W	CB	x	Waste Characterization
		RVAAP14-001-WD	01-04-05	1305	S	CB	x	Waste Characterization

RECEIVED IN GOOD CONDITION  
 UNDER COB  
 JAN 05 2005  
 INI *[Signature]*

Relinquished by: <i>[Signature]</i>	Company: <b>MKM Engineers</b>	Date: <b>1/4/05</b>	Time: <b>1630</b>	Received By: <i>[Signature]</i>	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <i>[Signature]</i>	Company: <i>[Signature]</i>	Date: <b>1-5-05</b>	Time: <b>0940</b>

**Matrix Key**  
 W - Water  
 S - Soil  
 SL - Sludge  
 SO - Solid  
 WW - Wastewater  
 SE - Sediment  
 L - Leachate  
 M - Miscellaneous  
 DL - Drum Liquid  
 DS - Drum Solid  
 W - Wipe  
 A Air  
 OL - Oil  
 O \_\_\_\_\_

Comments: \_\_\_\_\_

Date Received \_\_\_\_\_

Courier: \_\_\_\_\_

Hand Delivered: \_\_\_\_\_

Bill of Lading: \_\_\_\_\_

STL Chicago is part of Severn Trent Laboratories, Inc.  
*Samples are composites and not grab samples per Eric Ellis (MKM) 1/7/05*



STL

LOT RECEIPT CHECKLIST
STL Sacramento

CLIENT STL-CHICAGO PM Rtl LOG # 30306
LOT# (QUANTIMS ID) G5A050217 QUOTE# 60857 LOCATION W21B

DATE RECEIVED 1-5-05 TIME RECEIVED 0930

Initials Gc Date 1-5-05

DELIVERED BY [X] FEDEX [ ] CA OVERNIGHT [ ] CLIENT
[ ] AIRBORNE [ ] GOLDENSTATE [ ] DHL
[ ] UPS [ ] BAX GLOBAL [ ] GO-GETTERS
[ ] STL COURIER [ ] COURIERS ON DEMAND
[ ] OTHER

CUSTODY SEAL STATUS [X] INTACT [ ] BROKEN [ ] N/A

CUSTODY SEAL #(S) 615266, 615276

SHIPPING CONTAINER(S) [ ] STL [X] CLIENT [ ] N/A

TEMPERATURE RECORD (IN °C) IR 1 [ ] 3 [X] [ ] OTHER

COC #(S) N/A

TEMPERATURE BLANK N/A

SAMPLE TEMPERATURE 5°C

COLLECTOR'S NAME: [X] Verified from COC [ ] Not on COC

pH MEASURED [ ] YES [ ] ANOMALY [X] N/A

LABELED BY.....

LABELS CHECKED BY.....

PEER REVIEW [X] NA

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING

WETCHEM [X] N/A

VOA-ENCORES [X] N/A

[ ] METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL [X] N/A

[X] COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES [ ] N/A

[ ] Clouseau [ ] TEMPERATURE EXCEEDED (2 °C - 6 °C)\*1 [X] N/A

[ ] WET ICE [ ] BLUE ICE [ ] GEL PACK [ ] NO COOLING AGENTS USED [ ] PM NOTIFIED

Notes: \_\_\_\_\_

Table with 2 columns: Initials, Date. Contains handwritten entries and a large vertical line with arrows at the bottom.

\*1 Acceptable temperature range for State of Wisconsin samples is <= 4°C.

**STL Chicago**  
 2417 Bond St.  
 University Park, IL 60466  
 708-534-5200  
 Fax: 708-534-5211

**Report To:**

**Bill To:**

Contact: <b>Eric Ellis</b>	Contact: <b>Eric Ellis</b>
Company: <b>MKM Engineers, Inc.</b>	Company: <b>MKM Engineers, Inc.</b>
Address: <b>8461 State Route 5 Ravenna, OH 44266</b>	Address: <b>8451 State Route 5 Ravenna, OH 44266</b>
Phone: <b>330-358-2920</b>	Phone: <b>330-358-2920</b>
Fax: <b>330-358-2924</b>	Fax: <b>330-358-2924</b>
Email: <b>eric.ellis@mkmengineers.com</b>	PO #:
	Quote #:

Lab Lot # **233355**

Package Sealed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Sealed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Received on Ice <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Temperature C of Cooler <b>(23) (33)</b>	

**Sampler Name:** SUE BOLES  
**Sampler Signature:** *Sue Boles*  
**Project Name:** **Characterization of RVAAP 14 AOCs**  
**Project Number:** **04-02-0030**  
**Project Location:** **RVAAP - Ravenna, Ohio**  
**Lab PM:** **Nancy McDonald**

Within Hold Time <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Preserv. Indicated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
pH Check OK <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Res Cl2 Check OK <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Date Required		Refrig #												
Hard Copy	21 Days	#/Cont												
Fax/Email	14 Days	Volume												
		Preserv												

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Contig/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Peas/PCBs	TPH GRO (8015)	TPH DRO (8016)	Cyanide	Additional Analyses / Remarks
1		L10mw-001-GW	01-10-05	1100	W	G	x	x	x	x	x	x	x	x	x	
2		L10mw-002-GW	01-10-05	0920	W	G	x	x	x	x	x	x	x	x	x	
3		TRIP BLANK	LAB	LAB												

Relinquished by: <i>Sue Boles</i>	Company: <b>MKM Engineers</b>	Date: <b>01/10/05</b>	Time: <b>1630</b>	Received By:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <i>fls</i>	Company: <b>SN</b>	Date: <b>1/10/05</b>	Time: <b>1000</b>
<b>Matrix Key</b>	WW - Wastewater	DL - Drum Liquid	A Air	Comments: Please call if sediment quantity is not sufficient - (limited by sediment supply)			
W - Water	SE - Sediment	DS - Drum Solid	OL - Oil				
S - Soil	L - Leachate	W - Wipe	O _____				
SL - Sludge	M - Miscellaneous						
SO - Solid				Date Received: <b>1/10/05</b>	Courier: <b>FE</b>	Hand Delivered:	Bill of Lading: <i>see attach</i>

Job Number.: 233355 Location.: 57222 Check List Number.: 1 Description.:  
 Customer Job ID..... Job Check List Date.: 01/11/2005 Date of the Report...: 01/20/2005  
 Project Number.: 20004694 Project Description.: USACE RVAAP 14 AOCs Project Manager.....: nam  
 Customer.....: MKM Engineers, Inc. Contact.: Eric Ellis

Questions ?	(Y/N)	Comments
Chain-of-Custody Present?.....	Y	
Were samples dropped off at or picked up by STL?..	N	
Custody seal on shipping container?.....	Y	
...If "yes", custody seal intact?.....	Y	
Custody seals on sample containers?.....	N	
...If "yes", custody seal intact?.....		
Samples iced?.....	Y	
Temperature of cooler acceptable? (4 deg C +/- 2)..	Y	2.3,3.3
Samples received intact (good condition)?.....	Y	
Volatile samples acceptable? (no headspace).....	Y	
Correct containers used?.....	Y	
Adequate sample volume provided?.....	Y	
Samples preserved correctly?.....	Y	
Samples received within holding-time?.....	Y	
Agreement between COC and sample labels?.....	Y	
Radioactivity at or below background levels?.....	Y	
A Sample Discrepancy Report (SDR) was needed?.....	N	
If samples were shipped was there an air bill #?..	Y	
Sample Custodian Signature/Date.....	Y	

STL Chicago  
2417 Bond St.  
University Park, IL 60488  
708-534-5200  
Fax: 708-534-5211

<b>Report To:</b>		<b>Bill To:</b>	
Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44268	Address:	8451 State Route 5 Ravenna, OH 44268
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengineers.com	PO #:	
		Quote #:	

Lab Lot # **233426**

Package Sealed:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Samples Sealed:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Repacked on Job:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Samples Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Temperature C of Cooler:	(3.3) (4.1) (3.0)		
Within Hold Time:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Preserv. Indicated:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
pH Check OK:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Res. CL2 Check OK:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Sample Labels and CDC Agree:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> CDC not present		

Sampler Name:	<b>ERIC ELLIS</b>
Sampler Signature:	<i>[Signature]</i>
Project Name:	Characterization of RVAAP 14 AOCs
Project Number:	04-02-0030
Project Location:	RVAAP - Ravenna, Ohio
Lab PM:	Nancy McDonald

Date Required		Ref. #																	
Hard Copy	21 Days	#/ Cont.																	
Fax/Email	14 Days	Volume																	
		Preserv.																	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Cr+6	Additional Analyses / Remarks
1		LNWmw-024-ER	01-12-05	0800	W	G	x	x	x	x	x	x		Equipment Rinse
2		LNWmw-024-GW	01-12-05	0900	W	G	x	x	x	x	x	x		
3		LNWmw-025-GW	01-12-05	1100	W	G	x	x	x	x	x	x		
4		CBLmw-002-GW	01-12-05	1330	W	G	x	x	x	x	x	x	x	Cr+6 - Watch hold time!
5		CBLmw-003-GW	01-12-05	1500	W	G	x	x	x	x	x	x	x	Cr+6 - Watch hold time!
6		TRIP BLANK	Lab	Lab	W	G	x							

Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:
<i>[Signature]</i>	MKM Engineers	1/12/05	1430		STL North Canton (Courier)		
Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:
	STL North Canton (Courier)				Fed Ex		
Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:
	FedEx			<i>[Signature]</i>	sn	1/13/05	1030

<b>Matrix Key</b>	WW - Wastewater	DL - Drum Liquid	A - Air	Comments:	Date Received
W - Water	SE - Sediment	DS - Drum Solid	OL - Oil	Please call if sediment quantity is not sufficient - (limited by sediment supply)	1/13/05
S - Soil	L - Leachate	W - Wipe	O - _____		Courier: <b>FK</b>
SL - Sludge	M - Miscellaneous				Hand Delivered:
SO - Solid					Bill of Lading: <i>see attach</i>

rpjsckl

Job Sample Receipt Checklist Report

V2

Job Number.: 233426	Location.: 57222	Check List Number.: 1	Description.:
Customer Job ID.....:		Job Check List Date.: 01/13/2005	Date of the Report...: 01/24/2005
Project Number.: 20004694	Project Description.: USACE RVAAP 14 AOCs		Project Manager.....: nsm
Customer.....: MKM Engineers, Inc.		Contact.: Eric Ellis	

Questions ?	(Y/N) Comments
-------------	----------------

Chain-of-Custody Present?..... Y

Were samples dropped off at or picked up by STL?.. N

Custody seal on shipping container?..... Y

...If "yes", custody seal intact?..... Y

Custody seals on sample containers?..... N

...If "yes", custody seal intact?.....

Samples iced?..... Y

Temperature of cooler acceptable? (4 deg C +/- 2). Y 3.3,4.1,3.0

Samples received intact (good condition)?..... Y

Volatile samples acceptable? (no headspace)..... Y

Correct containers used?..... Y

Adequate sample volume provided?..... Y

Samples preserved correctly?..... Y

Samples received within holding-time?..... Y

Agreement between COC and sample labels?..... Y

Radioactivity at or below background levels?..... Y

A Sample Discrepancy Report (SDR) was needed?..... N

If samples were shipped was there an air bill #?.. Y

Sample Custodian Signature/Date..... Y

**STL Sacramento**  
 880 Riverside Parkway  
 West Sacramento, CA 95605  
 (910) 373-5600  
 Fax: (916) 372-1059

**Report To:**

Contact: **Eric Ellis**  
 Company: **MKM Engineers, Inc.**  
 Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
 Phone: **330-358-2920**  
 Fax: **330-358-2924**  
 Email: **eric.ellis@mkmengeers.com**

**Bill To:**

Contact: **Eric Ellis**  
 Company: **MKM Engineers, Inc.**  
 Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
 Phone: **330-358-2920**  
 Fax: **330-358-2924**  
 PO #:

**Lab Lot #**

Package Sealed	Yes	No	Samples Sealed	Yes	No
Received on Ice	Yes	No	Samples Intact	Yes	No
Temperature C of Cooler					

Sampler Name: **ERIC ELLIS**  
 Sampler Signature: *[Signature]*  
 Project Name: **Characterization of RVAAP 14 AOCs**  
 Project Number: **04-02-0030**  
 Project Location: **RVAAP - Ravenna, Ohio**  
 Lab PM: **Robert Hbarak**

Within Hold Time	Yes	No	
Preserv. Indicated	Yes	No	N/A
pH Check OK	Yes	No	N/A
Res CL2 Check OK	Yes	No	N/A

Date Required		Refrg #	
Hard Copy	21 Days	# / Cont	
Fax/Email	14 Days	Volume	
		Preserv.	

Sample Labels and COC Agree	Yes	No	COC not present
-----------------------------	-----	----	-----------------

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	Propellants (Nitroguanidine/Nitrocellulose)	Additional Analyses / Remarks
		LNWmw-024-ER	01-12-05	0800	W	G	x	
		LNWmw-024-GW	01-12-05	0900	W	G	x	Equipment Rinse
		LNWmw-025-GW	01-12-05	1100	W	G	x	
		CBLmw-002-GW	01-12-05	1330	W	G	x	
		CBLmw-003-GW	01-12-05	1500	W	G	x	

RECEIVED IN GOOD CONDITION  
 UNDER COC  
 JAN 13 2005  
*[Signature]*

Relinquished by: <i>[Signature]</i>	Company: <b>MKM Engineers</b>	Date: <b>1/12/05</b>	Time: <b>1430</b>	Received By: <i>[Signature]</i>	Company: <b>STL North Canton (Courier)</b>	Date: <b>1/13/05</b>	Time: <b>1700</b>
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By:	Company:	Date:	Time:

**Matrix Key**  
 W - Water      WW - Wastewater      DL - Drum Liquid      A - Air  
 S - Soil        SE - Sediment        DS - Drum Solid      OL - Oil  
 SL - Sludge    L - Leachate        W - Wipe              O \_\_\_\_\_  
 SO - Solid      M - Miscellaneous

Comments: \_\_\_\_\_  
 Date Received: \_\_\_\_\_  
 Courier: \_\_\_\_\_  
 Hand Delivered: \_\_\_\_\_  
 Bill of Lading: \_\_\_\_\_



# STL

## LOT RECEIPT CHECKLIST STL Sacramento

CLIENT MKW PM PH LOG # 30446  
 LOT# (QUANTIMS ID) G5A130351 QUOTE# 60857 LOCATION W25C

DATE RECEIVED 1-13-05 TIME RECEIVED 945 Initials AK Date 1-13-05

- DELIVERED BY
- FEDEX
  - AIRBORNE
  - UPS
  - STL COURIER
  - OTHER
  - CA OVERNIGHT
  - GOLDENSTATE
  - BAX GLOBAL
  - COURIERS ON DEMAND
  - CLIENT
  - DHL
  - GO-GETTERS

CUSTODY SEAL STATUS  INTACT  BROKEN  N/A  
 CUSTODY SEAL #(S) 615450, 615476

SHIPPING CONTAINER(S)  STL  CLIENT  N/A  
 TEMPERATURE RECORD (IN °C) IR 1  3  OTHER

COC #(S) N/A  
 TEMPERATURE BLANK 2°  
 SAMPLE TEMPERATURE 2°

COLLECTOR'S NAME:  Verified from COC  Not on COC

PH MEASURED  YES  ANOMALY  N/A

LABELED BY.....

LABELS CHECKED BY.....  
 PEER REVIEW  NA

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING

- WETCHEM  N/A
- VOA-ENCORES  N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL  N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES  N/A

Clouseau  TEMPERATURE EXCEEDED (2 °C - 6 °C)\*1  N/A  
 WET ICE  BLUE ICE  GEL PACK  NO COOLING AGENTS USED  PM NOTIFIED

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

\*1 Acceptable temperature range for State of Wisconsin samples is ≤4°C.



**STL Chicago**  
 2417 Bond St.  
 University Park, IL 60466  
 708-534-5200  
 Fax: 708-534-5211

<b>Report To:</b>		<b>Bill To:</b>	
Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengineers.com	PO #:	
		Quote #:	

Lab Lot # 233502

Sampler Name: ERIC ELLIS  
 Sampler Signature: [Signature]  
 Project Name: **Characterization of RVAAP 14 AOCs**  
 Project Number: **04-02-0030**  
 Project Location: **RVAAP - Ravenna, Ohio**  
 Lab PM: **Nancy McDonald**

Packages Sealed	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Samples Sealed	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Received on Ice	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Samples Intact	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Temperature C of Cooler	(3.0) (2.8)		
Within Hold Time	Yes <input type="checkbox"/> No <input type="checkbox"/>		
Preserv. Indicated	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
pH Check OK	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Res GL2 Check OK	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Sample Labels and COC Agrees	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> COC not present		

Date Required	21 Days	Refrig. #	
Hard Copy	14 Days	# / Cont.	
Fax/Email		Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Cr+6	TPH DRO (8015)	TPH GRO (8015)	Additional Analyses / Remarks
1		L10mw-006-ER	1-14-05	0730	W	G	x	x	x	x		x		x	x	Equipment Rinse
2		B12mw-010-GW	1-14-05	1000	W	G	x	x	x	x	x	x				added by STL
3		Tip blank														

Relinquished by: <u>[Signature]</u>	Company: <b>MKM Engineers</b>	Date: <u>1/14/05</u>	Time:	Received By:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <u>[Signature]</u>	Company: <b>SA</b>	Date: <u>1/15/05</u>	Time: <u>0900</u>

<b>Matrix Key</b>	W - Wastewater	DL - Drum Liquid	A - Air	Comments: Please call if sediment quantity is not sufficient - (limited by sediment supply)	Date Received: <u>1/15/05</u>
S - Soil	SE - Sediment	DS - Drum Solid	OL - Oil		Courier: <u>FX</u>
Sl - Sludge	L - Leachate	W - Wipe	O _____		Hand Delivered:
SO - Solid	M - Miscellaneous				Bill of Lading: <u>see attached</u>

Questions ?	(Y/N)	Comments
Chain-of-Custody Present?.....	Y	
Were samples dropped off at or picked up by STL?..	N	
Custody seal on shipping container?.....	Y	
...If "yes", custody seal intact?.....	Y	
Custody seals on sample containers?.....	N	
...If "yes", custody seal intact?.....		
Samples iced?.....	Y	
Temperature of cooler acceptable? (4 deg C +/- 2).	Y	2.8,3.0
Samples received intact (good condition)?.....	Y	
Volatile samples acceptable? (no headspace).....	Y	
Correct containers used?.....	Y	
Adequate sample volume provided?.....	Y	
Samples preserved correctly?.....	Y	
Samples received within holding-time?.....	Y	
Agreement between COC and sample labels?.....	Y	
Radioactivity at or below background levels?.....	Y	
A Sample Discrepancy Report (SDR) was needed?.....	N	
If samples were shipped was there an air bill #?..	Y	
Sample Custodian Signature/Date.....	Y	





# STL

## LOT RECEIPT CHECKLIST STL Sacramento

CLIENT M Kun PM PH LOG # 90477

LOT# (QUANTIMS ID) G5A150179 QUOTE# 60857 LOCATION USA

DATE RECEIVED 1-15-05 TIME RECEIVED 945

Initials CK Date 1-15-05

- DELIVERED BY
- FEDEX
  - AIRBORNE
  - UPS
  - STL COURIER
  - OTHER
  - CA OVERNIGHT
  - GOLDENSTATE
  - BAX GLOBAL
  - COURIERS ON DEMAND
  - CLIENT
  - DHL
  - GO-GETTERS

CUSTODY SEAL STATUS  INTACT  BROKEN  N/A  
CUSTODY SEAL #(S) 615596, 615566

SHIPPING CONTAINER(S)  STL  CLIENT  N/A  
TEMPERTURE RECORD (IN °C) IR 1  3  OTHER

COC #(S) N/A  
TEMPERATURE BLANK 3°  
SAMPLE TEMPERATURE 2°

COLLECTOR'S NAME:  Verified from COC  Not on COC

PH MEASURED  YES  ANOMALY  N/A

LABELLED BY.....

LABELS CHECKED BY.....  
PEER REVIEW  NA

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING

- WETCHEM  N/A
- VOA-ENCORES  N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL  N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES  N/A

- Clouseau
- WET ICE
- TEMPERATURE EXCEEDED (2 °C – 6 °C)\*\*  N/A
- BLUE ICE
- GEL PACK
- NO COOLING AGENTS USED
- PM NOTIFIED

Notes: \_\_\_\_\_

\*1 Acceptable temperature range for State of Wisconsin samples is ≤ 4°C.

STL Chicago  
 2417 Bond St.  
 University Park, IL 60468  
 708-534-5200  
 Fax: 708-534-5211

**Report To:**

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengeers.com	PO #:	

**Bill To:**

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengeers.com	PO #:	
		Quote #:	

Lab Lot # 233541

Package Sealed:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Samples Sealed:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Received on Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Samples Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Temperature of Cooler: (1.0) (2.1) (2.6)			
Wipes Hold Time: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
Preserv. Indicated: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>			
pH Check OK: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>			
Res. Cl2 Check OK: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>			
Sample Labels and COC Adhes: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> COC not present <input type="checkbox"/>			

Sampler Name: ERIC ELLIS  
 Sampler Signature: [Signature]  
 Project Name: Characterization of RVAAP 14 AOCs  
 Project Number: 04-02-0030  
 Project Location: RVAAP - Ravenna, Ohio  
 Lab PM: Nancy McDonald

Date Required	21 Days	Range #	
Hard Copy	14 Days	#/Cont.	
Fax/Email		Volume	
		Priority	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Cr+8	TPH DRO (8016)	TPH GRO (8016)	Cyanide	Additional Analyses / Remarks
1		L10mw-006-GW	1-17-05	0950	W	G	x	x	x	x		x		x	x	x	
2		L10mw-003-GW	1-17-05	1145	W	G	x	x	x	x	x	x		x	x	x	
3		CBLmw-004-GW	1-17-5	1435	W	G	x	x	x	x	x	x	x				
4		TRIP BLANK	Lab	Lab	W	G	x										

Relinquished by: <u>[Signature]</u>	Company: <b>MKM Engineers</b>	Date: <u>4/17/05</u>	Time: <u>1630</u>	Received By: <u>[Signature]</u>	Company: <b>STL North Canton (Courier)</b>	Date: <u>11/18/05</u>	Time: <u>0940</u>
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <u>[Signature]</u>	Company: <b>sn</b>	Date:	Time:
Matrix Key	WW - Wastewater	DL - Drum Liquid	A Air	Comments: Please call if sediment quantity is not sufficient - (limited by sediment supply)		Date Received: <u>11/18/05</u>	
W - Water	SE - Sediment	DS - Drum Solid	OL - Oil			Courier: <u>EX</u>	
S - Soil	L - Leachate	W - Wipe	O _____			Hand Delivered:	
SL - Sludge	M - Miscellaneous					Bill of Lading: <u>see attach</u>	
SO - Solid							

rpjsckl	Job Sample Receipt Checklist Report		V2
Job Number.: 233541	Location.: 57222	Check List Number.: 1	Description.:
Customer Job ID.....:		Job Check List Date.: 01/18/2005	Date of the Report...: 01/27/2005
Project Number.: 20004694	Project Description.: USACE RVAAP 14 AOCS		Project Manager.....: nsm
Customer.....: MKM Engineers, Inc.		Contact.: Eric Ellis	
Questions ?	(Y/N) Comments		
Chain-of-Custody Present?.....	Y		
Were samples dropped off at or picked up by STL?..	N		
Custody seal on shipping container?.....	Y		
...If "yes", custody seal intact?.....	Y		
Custody seals on sample containers?.....	N		
...If "yes", custody seal intact?.....			
Samples iced?.....	Y		
Temperature of cooler acceptable? (4 deg C +/- 2).	Y	3.0,2.4,2.6	
Samples received intact (good condition)?.....	Y		
Volatile samples acceptable? (no headspace)...	Y		
Correct containers used?.....	Y		
Adequate sample volume provided?.....	Y		
Samples preserved correctly?.....	Y		
Samples received within holding-time?.....	Y		
Agreement between COC and sample labels?.....	Y		
Radioactivity at or below background levels?.....	Y		
A Sample Discrepancy Report (SDR) was needed?.....	N		
If samples were shipped was there an air bill #?..	Y		
Sample Custodian Signature/Date.....	Y		





# STL

## LOT RECEIPT CHECKLIST STL Sacramento

CLIENT STL-CHICAGO PM 24 LOG # 30588

LOT# (QUANTIMS ID) G5A180211 QUOTE# 60857 LOCATION WISS

		Initials	Date
DATE RECEIVED	<u>1/8/05</u>	<u>GR</u>	<u>1/8/05</u>
TIME RECEIVED	<u>0910</u>		
DELIVERED BY	<input checked="" type="checkbox"/> FEDEX <input type="checkbox"/> CA OVERNIGHT <input type="checkbox"/> CLIENT <input type="checkbox"/> AIRBORNE <input type="checkbox"/> GOLDENSTATE <input type="checkbox"/> DHL <input type="checkbox"/> UPS <input type="checkbox"/> BAX GLOBAL <input type="checkbox"/> GO-GETTERS <input type="checkbox"/> STL COURIER <input type="checkbox"/> COURIERS ON DEMAND <input type="checkbox"/> OTHER		
CUSTODY SEAL STATUS	<input checked="" type="checkbox"/> INTACT <input type="checkbox"/> BROKEN <input type="checkbox"/> N/A		
CUSTODY SEAL #(S)	<u>615636 615646</u>		
SHIPPING CONTAINER(S)	<input type="checkbox"/> STL <input checked="" type="checkbox"/> CLIENT <input type="checkbox"/> N/A		
TEMPERATURE RECORD (IN °C)	IR    1 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		
COC #(S)	<u>N/A</u>		
TEMPERATURE BLANK	<u>2°C</u>		
SAMPLE TEMPERATURE	<u>2°C</u>		
COLLECTOR'S NAME:	<input checked="" type="checkbox"/> Verified from COC <input type="checkbox"/> Not on COC		
pH MEASURED	<input type="checkbox"/> YES <input type="checkbox"/> ANOMALY <input checked="" type="checkbox"/> N/A		
LABELLED BY.....			
LABELS CHECKED BY.....			
PEER REVIEW	<input checked="" type="checkbox"/> N/A		
SHORT HOLD TEST NOTIFICATION			
SAMPLE RECEIVING	WETCHEM <input checked="" type="checkbox"/> N/A VOA-ENCORES <input checked="" type="checkbox"/> N/A		
<input type="checkbox"/> METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL	<input checked="" type="checkbox"/> N/A		
<input checked="" type="checkbox"/> COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES	<input type="checkbox"/> N/A		
<input type="checkbox"/> Clouseau	<input type="checkbox"/> TEMPERATURE EXCEEDED (2 °C – 6 °C)*1 <input checked="" type="checkbox"/> N/A		
<input type="checkbox"/> WET ICE	<input type="checkbox"/> BLUE ICE <input type="checkbox"/> GEL PACK <input type="checkbox"/> NO COOLING AGENTS USED <input type="checkbox"/> PM NOTIFIED		

Notes: \_\_\_\_\_

\*1 Acceptable temperature range for State of Wisconsin samples is ≤4°C.



STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

**Report To:**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
Phone: **330-358-2920**  
Fax: **330-358-2924**  
Email: **eric.ellis@mkmengeers.com**

**Bill To:**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
Phone: **330-358-2920**  
Fax: **330-358-2924**  
PO #:  
Quote #:

Lab Lot # **233574**

Sampler Name: **ERIC ELLIS**  
Sampler Signature: *[Signature]*  
Project Name: **Characterization of RVAAP 14 AOCs**  
Project Number: **04-02-0030**  
Project Location: **RVAAP - Ravenna, Ohio**  
Lab PM: **Nancy McDonald**

Package Sealed: Yes  No   
Samples Sealed: Yes  No   
Received on ice: Yes  No   
Samples intact: Yes  No   
Temperature C of Cooler: **(3.0) (2.6)**

Within Hold Time: Yes  No   
Presery. Indicated: Yes  No  N/A   
pH Check OK: Yes  No  N/A   
Res CL2 Check OK: Yes  No  N/A

Date Required		Refr #																	
Hard Copy	21 Days	# / Cont.																	
Fax/Email	14 Days	Volume																	
		Presery.																	

Sample Labels and COC Agree: Yes  No  COC not present

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Additional Analyses / Remarks
1		LL5mw-002-GW	1-18-05	1100	W	G	x	x	x	x		x	x	
2		LL5mw-003-GW	1-18-05	0930	W	G	x	x	x	x		x	x	
3		NTAmw-110-GW	1-18-05	1400	W	G	x	x	x	x	x	x		
4		TRIP BLANK	Lab	Lab	W	G	x							

Relinquished by: *[Signature]* Company: **MKM Engineers** Date: **1/18/05** Time: **1630**  
Received By: **STL North Canton (Courier)** Company: **STL North Canton (Courier)** Date: Time:

Relinquished by: Company: **STL North Canton (Courier)** Date: Time:  
Received By: **Fed Ex** Company: **Fed Ex** Date: Time:

Relinquished by: Company: **FedEx** Date: Time:  
Received By: *[Signature]* Company: *[Signature]* Date: **1/19/05** Time: **1000**

Matrix Key: W - Water, S - Soil, SL - Sludge, SO - Solid, VVW - Wastewater, SE - Sediment, L - Leachate, M - Miscellaneous, DL - Drum Liquid, DS - Drum Solid, W - Wipe, A - Air, OL - Oil, O - \_\_\_\_\_  
Comments: Please call if sediment quantity is not sufficient - (limited by sediment supply)  
Date Received: **1/19/05**  
Courier: **FX**  
Hand Delivered:  
Bill of Lading: **see attach**

10

rpjsckl		Job Sample Receipt Checklist Report		V2
Job Number.: 233574	Location.: 57222	Check List Number.: 1	Description.:	
Customer Job ID.....:		Job Check List Date.: 01/19/2005		Date of the Report.: 01/27/2005
Project Number.: 20004694	Project Description.: USAGE RVAAP 14 AOCs			Project Manager.....: nsm
Customer.....: MKM Engineers, Inc.		Contact.: Eric Ellis		
Questions ?	(Y/N)	Comments		
Chain-of-Custody Present?.....	Y			
Were samples dropped off at or picked up by STL?..	N			
Custody seal on shipping container?.....	Y			
...If "yes", custody seal intact?.....	Y			
Custody seals on sample containers?.....	N			
...If "yes", custody seal intact?.....				
Samples iced?.....	Y			
Temperature of cooler acceptable? (4 deg C +/- 2).	Y	2.6,3.0		
Samples received intact (good condition)?.....	Y			
Volatile samples acceptable? (no headspace).....	Y			
Correct containers used?.....	Y			
Adequate sample volume provided?.....	Y			
Samples preserved correctly?.....	Y			
Samples received within holding-time?.....	Y			
Agreement between COC and sample labels?.....	Y			
Radioactivity at or below background levels?.....	Y			
A Sample Discrepancy Report (SDR) was needed?.....	N			
If samples were shipped was there an air bill #?..	Y			
Sample Custodian Signature/Date.....	Y			

STL Chicago  
2417 Bond St  
University Park, IL 60486  
708-534-5200  
Fax: 708-534-5211

Report To:

Bill To:

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengeers.com	PO #:	

Lab Lot # 233624

Sampler Name:	ERIC ELLIS
Sampler Signature:	<i>[Signature]</i>
Project Name:	Characterization of RVAAP 14 AOCs
Project Number:	04-02-0030
Project Location:	RVAAP - Ravenna, Ohio
Lab PM:	Nancy McDonald

Package Sealed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Sealed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Received on Ice <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Temperature C of Cooler <b>(3.3) (2.9) (2.4)</b>	
Within Hold Time <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Preserv. Indicated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	N/A
pH Check OK <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	N/A
Res. CL2 Check OK <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	N/A
Sample Labels and COC Agree <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	COC not present

Date Required		Refr #	
Hard Copy	21 Days	#/Cont	
Fax/Email	14 Days	Volume	
		Preserv	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Cyanide	TPH GRO (8015)	TPH DRO (8015)	Additional Analyses / Remarks
1		L10mw-004-GW	1-19-05	1115	W	G	X	X	X	X		X	X	X	X	
2		L10mw-005-GW	1-19-05	0930	W	G	X	X	X	X		X	X	X	X	
3		L10mw-005-DUP	1-19-05	0930	W	G	X	X	X	X		X	X	X	X	
4		B12mw-012-GW	1-19-05	1430	W	G	X	X	X	X	X	X				
5		TRIP BLANK	Lab	Lab	W	G	X									

Relinquished by: <i>[Signature]</i>	Company: MKM Engineers	Date: 1/19/05	Time: 1630	Received By:	Company: STL North Canton (Courier)	Date:	Time:
Relinquished by:	Company: STL North Canton (Courier)	Date:	Time:	Received By:	Company: Fed Ex	Date:	Time:
Relinquished by:	Company: FedEx	Date:	Time:	Received By: <i>[Signature]</i>	Company: <i>[Signature]</i>	Date: 1/20/05	Time: 1000
Matrix Key W - Water S - Soil SL - Sludge SO - Solid	WW - Wastewater SE - Sediment L - Leachate M - Miscellaneous	DL - Drum Liquid DS - Drum Solid W - Wipe	A - Air OL - Oil O -	Comments: Please call if sediment quantity is not sufficient - (limited by sediment supply)	Date Received 1/20/05	Courier: PK	Hand Delivered: Bill of Lading: see attach

rpjsckl		Job Sample Receipt Checklist Report		V2
Job Number.: 233624	Location.: 57222	Check List Number.: 1	Description.:	Date of the Report...: 01/27/2005
Customer Job ID.....:		Job Check List Date.: 01/20/2005		Project Manager.....: nsm
Project Number.: 20004694	Project Description.: USACE RVAAP 14 AOCS	Contact.: Eric Ellis		
Customer.....: MKM Engineers, Inc.				
Questions ?	(Y/N)	Comments		
Chain-of-Custody Present?.....	Y			
Were samples dropped off at or picked up by STL?..	N			
Custody seal on shipping container?.....	Y			
...If "yes", custody seal intact?.....	Y			
Custody seals on sample containers?.....	N			
...If "yes", custody seal intact?.....				
Samples iced?.....	Y			
Temperature of cooler acceptable? (4 deg C +/- 2).	Y	3.3,2.9,2.4		
Samples received intact (good condition)?.....	Y			
Volatile samples acceptable? (no headspace).....	Y			
Correct containers used?.....	Y			
Adequate sample volume provided?.....	Y			
Samples preserved correctly?.....	Y			
Samples received within holding-time?.....	Y			
Agreement between COC and sample labels?.....	Y			
Radioactivity at or below background levels?.....	Y			
A Sample Discrepancy Report (SDR) was needed?.....	N			
If samples were shipped was there an air bill #?..	Y			
Sample Custodian Signature/Date.....	Y			

STL Sacramento  
 880 Riverside Parkway  
 West Sacramento, CA 95605  
 (910) 373-5600  
 Fax: (916) 372-1059

**Report To:**

Contact: **Eric Ellis**  
 Company: **MKM Engineers, Inc.**  
 Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
 Phone: **330-358-2920**  
 Fax: **330-358-2924**  
 Email: **eric.ellis@mkmengineers.com**

**Bill To:**

Contact: **Eric Ellis**  
 Company: **MKM Engineers, Inc.**  
 Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
 Phone: **330-358-2920**  
 Fax: **330-358-2924**  
 PO #:

**Lab Lot #**

Package Sealed Yes No	Samples Sealed Yes No
Received on Ice Yes No	Samples Intact Yes No
Temperature C of Cooler	
Within Hold Time Yes No	
Preserv. Indicated Yes No N/A	
pH Check OK Yes No N/A	
Res CL2 Check OK Yes No N/A	
Sample Labels and COC Agree Yes No COC not present	

Sampler Name: **ERIC ELLIS**  
 Sampler Signature: *[Signature]*  
 Project Name: **Characterization of RVAAP 14 AOCs**  
 Project Number: **04-02-0030**  
 Project Location: **RVAAP - Ravenna, Ohio**  
 Lab PM: **Robert Hbarak**

Date Required		Refrg #	
Hard Copy	21 Days	# / Cont.	
Fax/Email	14 Days	Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	Propellants (Nitrogen/nitine/ Nitrocellulose)	Additional Analyses / Remarks
		NTAmw-110-GW	1-18-05	1400	W	G	x	
		B12mw-012-GW	1-19-05	1430	W	G	x	

RECEIVED IN GOOD CONDITION  
 UNDER COC  
 JAN 20 2005  
 INI: *[Signature]*

Relinquished by: <i>[Signature]</i> Company: <b>MKM Engineers</b> Date: <b>1/19/05</b> Time: <b>1630</b>	Received By: <i>[Signature]</i> Company: <b>STL North Canton (Courier)</b> Date: <b>1-20-05</b> Time: <b>1055</b>
Relinquished by: <b>STL North Canton (Courier)</b> Company: <b>FedEx</b> Date: Time: 	Received By: <i>[Signature]</i> Company: <b>Fed Ex</b> Date: Time: 
Relinquished by: <b>FedEx</b> Company: <b>FedEx</b> Date: Time: 	Received By: <i>[Signature]</i> Company: <b>STL</b> Date: Time: 

**Matrix Key**  
 W - Water  
 S - Soil  
 SL - Sludge  
 SO - Solid  
 WW - Wastewater  
 SE - Sediment  
 L - Leachate  
 M - Miscellaneous  
 DL - Drum Liquid  
 DS - Drum Solid  
 W - Wipe  
 A Air  
 OL - Oil  
 O \_\_\_\_\_

Comments: \_\_\_\_\_

Date Received
Courier:
Hand Delivered:
Bill of Lading:



# STL

## LOT RECEIPT CHECKLIST STL Sacramento

CLIENT STL Sacramento PM EM LOG # 30546

LOT# (QUANTIMS ID) G5A200209 QUOTE# 60857 LOCATION WSA

DATE RECEIVED 1-2005 TIME RECEIVED 0915

Initials ce Date 1-2005

- DELIVERED BY
- FEDEX
  - AIRBORNE
  - UPS
  - STL COURIER
  - OTHER
  - CA OVERNIGHT
  - GOLDENSTATE
  - BAX GLOBAL
  - COURIERS ON DEMAND
  - CLIENT
  - DHL
  - GO-GETTERS

CUSTODY SEAL STATUS  INTACT  BROKEN  N/A

CUSTODY SEAL #(S) 615816 615836

SHIPPING CONTAINER(S)  STL  CLIENT  N/A

TEMPERTURE RECORD (IN °C) IR 1  3   OTHER

COC #(S) N/A

TEMPERATURE BLANK 2.0

SAMPLE TEMPERATURE 2.0

COLLECTOR'S NAME:  Verified from COC  Not on COC

pH MEASURED  YES  ANOMALY  N/A

LABELED BY.....

LABELS CHECKED BY.....

PEER REVIEW  NA

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING

WETCHEM  N/A

VOA-ENCORES  N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL  N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES  N/A

Clouseau  TEMPERATURE EXCEEDED (2 °C -- 6 °C)\*1  N/A

WET ICE  BLUE ICE  GEL PACK  NO COOLING AGENTS USED  PM NOTIFIED

Notes: \_\_\_\_\_

\*1 Acceptable temperature range for State of Wisconsin samples is  $\leq 4^{\circ}\text{C}$ .

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

Report To:

Contact: Eric Ellis  
Company: MKM Engineers, Inc.  
Address: 8451 State Route 5  
Ravenna, OH 44266  
Phone: 330-368-2920  
Fax: 330-368-2924  
Email: eric.ellis@mkmengeers.com

Bill To:

Contact: Eric Ellis  
Company: MKM Engineers, Inc.  
Address: 8451 State Route 5  
Ravenna, OH 44266  
Phone: 330-368-2920  
Fax: 330-368-2924  
PO #:  
Quote #:

Package Sealed	Yes	No	Samples Sealed	Yes	No
Received on Job	Yes	No	Samples Intact	Yes	No
Temperature C of Cooler	(30)		(20)		
Within Hold Time	Yes	No			
Preserv. Indicated	Yes	No	N/A		
pH Check OK	Yes	No	N/A		
Res. CL2 Check OK	Yes	No	N/A		
Sample Labels and COC Agree	Yes	No	COC not present		

Sampler Name: Eric Ellis  
Sampler Signature: [Signature]  
Project Name: Characterization of RVAAP 14 AOCs  
Project Number: 04-02-0030  
Project Location: RVAAP - Ravenna, Ohio  
Lab PM: Nancy McDonald

Date Required	21 Days	Refrig #	
Hard Copy	14 Days	% Cont.	
Fax/Email		Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	S/VOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Cr+6	Additional Analyses / Remarks
1		CBLmw-001-GW	1-20-05	1300	W	G	x	x	x	x	x	x	x	Cr+6 - Watch Hold Time!
2		CBLmw-001-DUP	1-20-05	1300	W	G	x	x	x	x	x	x	x	Cr+6 - Watch Hold Time!
3	X	CBLmw-001-MS/MSD*	1-20-05	1300	W	G	x	x	x	x	x	x	x	Cr+6 - Watch Hold Time!
		TRIP BLANK	Lab	Lab	W	G	x							

Relinquished by: [Signature]	Company: MKM Engineers	Date: 1/20/05	Time: 1430	Received By: [Signature]	Company: STL North Canton (Courier)	Date: 1/21/05	Time: 1000
Relinquished by:	Company: STL North Canton (Courier)	Date:	Time:	Received By:	Company: Fed Ex	Date:	Time:
Relinquished by:	Company: FedEx	Date:	Time:	Received By: [Signature]	Company: [Signature]	Date: 1/21/05	Time: 1000

Matrix Key  
W - Water  
S - Soil  
SL - Sludge  
SO - Solid  
WW - Wastewater  
SE - Sediment  
L - Leachate  
M - Miscellaneous  
DL - Drum Liquid  
DS - Drum Solid  
W - Wipe  
A Air  
OL - Oil  
O \_\_\_\_\_

Comments: Please call if sediment quantity is not sufficient - (limited by sediment supply)  
Date Received: 1/21/05  
Courier:  
Hand Delivered:  
Bill of Lading:

rpjsckl		Job Sample Receipt Checklist Report		V2
Job Number.: 233646	Location.: 57222	Check List Number.: 1	Description.:	Date of the Report...: 01/27/2005
Customer Job ID.....:		Job Check List Date.: 01/21/2005		Project Manager.....: hsm
Project Number.: 20004694	Project Description.: USACE RVAAP 14 AOCs	Contact.: Eric Ellis		
Customer.....: MKM Engineers, Inc.				
Questions ?	(Y/N)	Comments		
Chain-of-Custody Present?.....	Y			
Were samples dropped off at or picked up by STL?..	N			
Custody seal on shipping container?.....	Y			
...If "yes", custody seal intact?.....	Y			
Custody seals on sample containers?.....	N			
...If "yes", custody seal intact?.....				
Samples iced?.....	Y			
Temperature of cooler acceptable? (4 deg C +/- 2).	Y	3.0,2.8		
Samples received intact (good condition)?.....	Y			
Volatile samples acceptable? (no headspace).....	Y			
Correct containers used?.....	Y			
Adequate sample volume provided?.....	Y			
Samples preserved correctly?.....	Y			
Samples received within holding-time?.....	Y			
Agreement between COC and sample labels?.....	Y			
Radioactivity at or below background levels?.....	Y			
A Sample Discrepancy Report (SDR) was needed?.....	N			
If samples were shipped was there an air bill #?..	Y			
Sample Custodian Signature/Date.....	Y			







# STL

## LOT RECEIPT CHECKLIST STL Sacramento

CLIENT SR CHICAGO PM RU LOG # 30577

LOT# (QUANTIMS ID) G5A210274 QUOTE# 60857 LOCATION W21C

DATE RECEIVED 1-21-05 TIME RECEIVED 0915 Initials Re Date 1-21-05

- DELIVERED BY
- FEDEX
  - AIRBORNE
  - UPS
  - STL COURIER
  - OTHER
  - CA OVERNIGHT
  - GOLDENSTATE
  - BAX GLOBAL
  - COURIERS ON DEMAND
  - CLIENT
  - DHL
  - GO-GETTERS

CUSTODY SEAL STATUS  INTACT  BROKEN  N/A  
CUSTODY SEAL #(S) 615906, 615916

SHIPPING CONTAINER(S)  STL  CLIENT  N/A  
TEMPERATURE RECORD (IN °C) IR 1  3  OTHER

COC #(S) N/A  
TEMPERATURE BLANK 2c  
SAMPLE TEMPERATURE 2c

COLLECTOR'S NAME:  Verified from COC  Not on COC  
PH MEASURED  YES  ANOMALY  N/A

LABELLED BY.....  
LABELS CHECKED BY.....  
PEER REVIEW  NA

SHORT HOLD TEST NOTIFICATION SAMPLE RECEIVING  
WETCHEM  N/A  
VOA-ENCORES  N/A

- METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL  N/A
- COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES  N/A
- Clouseau  TEMPERATURE EXCEEDED (2 °C – 6 °C)\*  N/A
- WET ICE  BLUE ICE  GEL PACK  NO COOLING AGENTS USED  PM NOTIFIED

Notes: \_\_\_\_\_

\*1 Acceptable temperature range for State of Wisconsin samples is ≤4°C.



STL

Report To:

Bill To:

Lab Lot # 233685

STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 6 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengeers.com	PO #:	
		Quote #:	

Package Sealed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Sealed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Received on Ice <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Temperature C of Cooler (3.1) (2.7) (2.9) (3.2)	
Within Hold Time <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Preserv. Indicated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No N/A	
pH Check OK <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No N/A	
Res Cl2 Check OK <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No N/A	
Sample Labels and COC Agree <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No COC not present	

Sampler Name:	ERIC ELLIS
Sampler Signature:	<i>[Signature]</i>
Project Name:	Characterization of RVAAP 14 AOCs
Project Number:	04-02-0030
Project Location:	RVAAP - Ravenna, Ohio
Lab PM:	Nancy McDonald

Date Required	21 Days	Refr. #	
Hard Copy	14 Days	# / Cont.	
Fax/Email		Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pea/PCBs	Nitrate	Additional Analyses / Remarks
1		LL8mw-006-ER	1-21-05	0800	W	G	x	x	x	x		x	x	Nitrate - Watch Hold Time!
2		LL8mw-006-GW	1-21-05	1040	W	G	x	x	x	x		x	x	Nitrate - Watch Hold Time!
3		LL7mw-002-GW	1-21-05	0920	W	G	x	x	x	x	x	x	x	Nitrate - Watch Hold Time!
4		LNWmw-026-GW	1-21-05	1400	W	G	x	x	x	x	x	x		
5		BKGmw-010-GW	1-21-05	1500	W	G	x	x	x	x	x	x		
6		TRIP BLANK	Lab	Lab	W	G	x							

Relinquished by: <i>[Signature]</i>	Company: MKM Engineers	Date: 1/21/05	Time: 1630	Received By:	Company: STL North Canton (Courler)	Date:	Time:
Relinquished by:	Company: STL North Canton (Courier)	Date:	Time:	Received By:	Company: Fed Ex	Date:	Time:
Relinquished by:	Company: FedEx	Date:	Time:	Received By: <i>[Signature]</i>	Company: <i>[Signature]</i>	Date: 1/21/05	Time: 1000

<b>Matrix Key</b> W - Water S - Soil SL - Sludge SO - Solid WW - Wastewater SE - Sediment L - Leachate M - Miscellaneous DL - Drum Liquid DS - Drum Solid W - Wipe A Air OL - Oil O _____	Comments: Please call if sediment quantity is not sufficient - (limited by sediment supply)	Date Received: 1/22/05 Courier: <i>[Signature]</i> Hand Delivered: Bill of Lading: <i>see attach.</i>
---	--	--

rpjsckl Job Sample Receipt Checklist Report		V2
Job Number.: 233685	Location.: 57222	Check List Number.: 1
Customer Job ID.....		Description.: Job Check List Date.: 01/22/2005
Project Number.: 20004694	Project Description.: USACE RVAAP 14 AOCs	Date of the Report...: 02/02/2005
Customer.....: MKM Engineers, Inc.	Contact.: Eric Ellis	Project Manager.....: nam
Questions ?	(Y/N)	Comments
Chain-of-Custody Present?.....	Y	
Were samples dropped off at or picked up by STL?..	N	
Custody seal on shipping container?.....	Y	
...If "yes", custody seal intact?.....	Y	
Custody seals on sample containers?.....	N	
...If "yes", custody seal intact?.....		
Samples iced?.....	Y	
Temperature of cooler acceptable? (4 deg C +/- 2).	Y	3.1,2.7,2.4,3.2
Samples received intact (good condition)?.....	Y	
Volatile samples acceptable? (no headspace).....	Y	
Correct containers used?.....	Y	
Adequate sample volume provided?.....	Y	
Samples preserved correctly?.....	Y	
Samples received within holding-time?.....	Y	
Agreement between CDC and sample labels?.....	N	
Radioactivity at or below background levels?.....	Y	
A Sample Discrepancy Report (SDR) was needed?.....	N	
If samples were shipped was there an air bill #?..	Y	
Sample Custodian Signature/Date.....	Y	

**STL Sacramento**  
880 Riverside Parkway  
West Sacramento, CA 95605  
(910) 373-5600  
Fax. (916) 372-1059

**Report To:**

**Bill To:**

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengeers.com	PO #:	
		Quote #:	

**Lab Lot #**

Package Sealed	Yes	No	Samples Sealed	Yes	No
Received on Ice	Yes	No	Samples intact	Yes	No
Temperature C of Cooler					
Within Hold Time					
Preserv. Indicated					
pH Check OK					
Res Cl2 Check OK					
Sample Labels and COC Agree					

Sampler Name:	<b>ERIC ELLIS</b>
Sampler Signature:	<i>[Signature]</i>
Project Name:	<b>Characterization of RVAAP 14 AOCs</b>
Project Number:	<b>04-02-0030</b>
Project Location:	<b>RVAAP - Ravenna, Ohio</b>
Lab PM:	<b>Robert Hbarak</b>

Date Required		Refrg #	
Hard Copy	21 Days	# / Cont.	
Fax/Email	14 Days	Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	Propellants (Nitroguanidine/Nitrocellulose)	Additional Analyses / Remarks							
		LL7mw-002-GW	1-21-05	0920	W	G	x								
		LNWmw-026-GW	1-21-05	1400	W	G	x								
		BKGmw-010-GW	1-21-05	1500	W	G	x								

RECEIVED IN GOOD CONDITION UNDER COC

JAN 22 2005

INI SA

Relinquished by: <i>[Signature]</i>	Company: <b>MKM Engineers</b>	Date: <b>1/21/05</b>	Time: <b>1630</b>	Received By:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <i>[Signature]</i>	Company: <b>STL SAC</b>	Date: <b>1-22-05</b>	Time: <b>1020</b>

**Matrix Key**  
W - Water      WW - Wastewater      DL - Drum Liquid      A - Air  
S - Soil      SE - Sediment      DS - Drum Solid      OL - Oil  
SL - Sludge      L - Leachate      W - Wipe      O - \_\_\_\_\_  
SO - Solid      M - Miscellaneous

Comments:	Date Received
	Courier:
	Hand Delivered:
	Bill of Lading:

STL Chicago is part of Severn Trent Laboratories, Inc.

\* labeled LNWmw-027-GW as 1-22-05



STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

<b>Report To:</b>		<b>Bill To:</b>	
Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 6 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmenqineers.com	PO #:	
		Quote #:	

Lab Lot # **233716**

10

Package Sealed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Sealed <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Received on Ice <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Temperature C of Cooler <b>(3.0) (2.7)</b>	

Sampler Name:	<b>Eric Ellis</b>
Sampler Signature:	<i>[Signature]</i>
Project Name:	Characterization of RVAAP 14 AOCs
Project Number:	04-02-0030
Project Location:	RVAAP - Ravenna, Ohio
Lab PM:	Nancy McDonald

Within Hold Time <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Preserv. Indicated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
pH Check OK <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Res CL2 Check OK <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A

Date Required		Relrg #	
Hard Copy	21 Days	# / Cont.	
Fax/Email	14 Days	Volume	
		Preserv.	

Sample Labels and COC Agree <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> COC not present
---

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pea/PCBs	Nitrate	Additional Analyses / Remarks
1		LL7mw-004-GW	1-24-05	1400	W	G	x	x	x	x	x	x	x	
2		LL7mw-001-GW	1-24-05	1530	W	G	x	x	x	x	x	x	x	
3		TRIP BLANK	Lab	Lab	W	G	x							

Relinquished by: <i>[Signature]</i>	Company: <b>MKM Engineers</b>	Date: <b>24 JAN 05</b>	Time: <b>1630</b>	Received By:	Company: <b>STL North Canton (Courier)</b>	Date: _____	Time: _____
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date: _____	Time: _____	Received By:	Company: <b>Fed Ex</b>	Date: _____	Time: _____
Relinquished by:	Company: <b>FedEx</b>	Date: _____	Time: _____	Received By: <i>[Signature]</i>	Company: <b>STL</b>	Date: <b>1/25/05</b>	Time: <b>0900</b>

<b>Matrix Key</b> W - Water S - Soil SL - Sludge SO - Solid	WW - Wastewater SE - Sediment L - Leachate M - Miscellaneous	DL - Drum Liquid DS - Drum Solid W - Wipe	A - Air OL - Oil O - _____	Comments: Please call if sediment quantity is not sufficient - (limited by sediment supply)	Date Received: <b>1/25/05</b> Courier: <b>FX</b> Hand Delivered: Bill of Lading: <b>see attach</b>
---	---	---	----------------------------------	--	--

Job Number.: 233716 Location.: 57222 Check List Number.: 1 Description.:  
 Customer Job ID.....: Job Check List Date.: 01/25/2005 Date of the Report...: 02/02/2005  
 Project Number.: 20004694 Project Description.: USACE RVAAP 14 AOCs Project Manager.....: nsm  
 Customer.....: MKM Engineers, Inc. Contact.: Eric Ellis

Questions ?	(Y/N) Comments
Chain-of-Custody Present?.....	Y
Were samples dropped off at or picked up by STL?..	N
Custody seal on shipping container?.....	Y
...If "yes", custody seal intact?.....	Y
Custody seals on sample containers?.....	N
...If "yes", custody seal intact?.....	
Samples iced?.....	Y
Temperature of cooler acceptable? (4 deg C +/- 2). Y	3.0,2.7
Samples received intact (good condition)?.....	Y
Volatile samples acceptable? (no headspace).....	Y
Correct containers used?.....	Y
Adequate sample volume provided?.....	Y
Samples preserved correctly?.....	Y
Samples received within holding-time?.....	Y
Agreement between COC and sample labels?.....	Y
Radioactivity at or below background levels?.....	Y
A Sample Discrepancy Report (SDR) was needed?.....	N
If samples were shipped was there an air bill #?..	Y
Sample Custodian Signature/Date.....	Y



STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

**Report To:**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
Phone: **330-358-2920**  
Fax: **330-358-2924**  
Email: **eric.ellis@mkmengeers.com**

**Bill To:**

Contact: **Eric Ellis**  
Company: **MKM Engineers, Inc.**  
Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
Phone: **330-358-2920**  
Fax: **330-358-2924**  
PO #:  
Quote #:

Lab Lot # 233742

Package Sealed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Sealed <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Received on Ice <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Temperature C of Cooler <b>(31) (26)</b>	
Within Hold Time <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Preserv. Indicated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
pH Check OK <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Res CL2 Check OK <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Sample Labels and COC Agree <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> COC not present	

Sampler Name: **ERIC ELLIS**  
Sampler Signature: *[Signature]*  
Project Name: **Characterization of RVAAP 14 AOCs**  
Project Number: **04-02-0030**  
Project Location: **RVAAP - Ravenna, Ohio**  
Lab PM: **Nancy McDonald**

Date Required	21 Days	Refr #	
Hard Copy	14 Days	# / Cont.	
Fax/Email		Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Additional Analyses / Remarks
1		LL7mw-003-GW	1-25-05	0930	W	G	x	x	x	x	x	x	x	
2		LL7mw-003-DUP	1-25-05	0930	W	G	x	x	x	x	x	x	x	
3		LL7mw-006-GW	1-25-05	1130	W	G	x	x	x	x	x	x	x	
4		TRIP BLANK	Lab	Lab	W	G	x							

Relinquished by: <i>[Signature]</i>	Company: <b>MKM Engineers</b>	Date: <b>1/25/05</b>	Time: <b>1630</b>	Received By:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <i>[Signature]</i>	Company: <b>STL</b>	Date: <b>1/26/05</b>	Time: <b>0900</b>
<b>Matrix Key</b>	WW - Wastewater	DL - Drum Liquid	A Air	Comments: Please call if sediment quantity is not sufficient - (limited by sediment supply)		Date Received: <b>1/26/05</b>	
W - Water	SE - Sediment	DS - Drum Solid	OL - Oil			Courier: <b>FX</b>	
S - Soil	L - Leachate	W - Wipe	O _____			Hand Delivered:	
SL - Sludge	M - Miscellaneous					Bill of Lading: <b>see attached</b>	
SO - Solid							

rpjsckl	Job Sample Receipt Checklist Report		V2
Job Number.: 233742	Location.: 57222	Check List Number.: 1	Description.:
Customer Job ID.....:	Job Check List Date.: 01/26/2005		Date of the Report...: 02/02/2005
Project Number.: 20004694	Project Description.: USACE RVAAP 14 ADCS		Project Manager.....: nsm
Customer.....: MKM Engineers, Inc.	Contact.: Eric Ellis		
Questions ?	(Y/N) Comments		
Chain-of-Custody Present?.....	Y		
Were samples dropped off at or picked up by STL?..	N		
Custody seal on shipping container?.....	Y		
...If "yes", custody seal intact?.....	Y		
Custody seals on sample containers?.....	N		
...If "yes", custody seal intact?.....			
Samples iced?.....	Y		
Temperature of cooler acceptable? (4 deg C +/- 2). Y	3.1,2.6		
Samples received intact (good condition)?.....	Y		
Volatile samples acceptable? (no headspace).....	Y		
Correct containers used?.....	Y		
Adequate sample volume provided?.....	Y		
Samples preserved correctly?.....	Y		
Samples received within holding-time?.....	Y		
Agreement between COC and sample labels?.....	Y		
Radioactivity at or below background levels?.....	Y		
A Sample Discrepancy Report (SDR) was needed?.....	Y		
If samples were shipped was there an air bill #?..	Y		
Sample Custodian Signature/Date.....	Y		



**STL Sacramento**  
 880 Riverside Parkway  
 West Sacramento, CA 95605  
 (910) 373-5600  
 Fax: (916) 372-1059

**Report To:**

Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengeers.com	PO #:	

**Bill To:**

**Lab Lot #**

Package Sealed	Yes	No	Samples Sealed	Yes	No
Received on Ice	Yes	No	Samples Intact	Yes	No
Temperature C of Cooler					

Sampler Name:	<b>ERIC ELLIS</b>
Sampler Signature:	<i>[Signature]</i>
Project Name:	Characterization of RVAAP 14 AOCs
Project Number:	04-02-0030
Project Location:	RVAAP - Ravenna, Ohio
Lab PM:	Robert Hbarak

Within Hold Time	Yes	No	
Preserv. Indicated	Yes	No	N/A
pH Check OK	Yes	No	N/A
Res CL2 Check OK	Yes	No	N/A
Sample Labels and COC Agree	Yes	No	COC not present

Date Required		Refrg #	
Hard Copy	21 Days	# / Cont.	
Fax/Email	14 Days	Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	Propellants (Nitroguanidine/ Nitrocellulose)	Additional Analyses / Remarks
		LL7mw-003-GW	1-25-05	0930	W	G	x	
		LL7mw-003-DUP	1-25-05	0930	W	G	x	
		LL7mw-006-GW	1-25-05	1130	W	G	x	
		LL7mw-004-GW	1-24-05	1400	W	G	x	
		LL7mw-001-GW	1-24-05	1530	W	G	x	

RECEIVED IN GOOD CONDITION  
 UNDER COC  
 JAN 26 2005  
*[Signature]*

Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:
<i>[Signature]</i>	MKM Engineers	1/25/05	1630		STL North Canton (Courier)		
Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:
	STL North Canton (Courier)				Fed Ex		
Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:
	FedEx			<i>[Signature]</i>	STL-5AC	1-26-05	1430

**Matrix Key**  
 W - Water  
 S - Soil  
 SL - Sludge  
 SO - Solid  
 WW - Wastewater  
 SE - Sediment  
 L - Leachate  
 M - Miscellaneous  
 DL - Drum Liquid  
 DS - Drum Solid  
 W - Wipe  
 A Air  
 OL - Oil  
 O \_\_\_\_\_

Comments:	Date Received
	Courier:
	Hand Delivered:
	Bill of Lading:

STL Chicago is part of Severn Trent Laboratories, Inc.



STL Chicago  
2417 Bond St.  
University Park, IL 60466  
708-534-5200  
Fax: 708-534-5211

**Report To:**

Contact:	Eric Ellis
Company:	MKM Engineers, Inc.
Address:	8451 State Route 6 Ravenna, OH 44266
Phone:	330-358-2920
Fax:	330-358-2924
Email:	eric.ellis@mkmengineers.com

**Bill To:**

Contact:	Eric Ellis
Company:	MKM Engineers, Inc.
Address:	8451 State Route 6 Ravenna, OH 44266
Phone:	330-358-2920
Fax:	330-358-2924
PO #:	
Quote #:	

Lab Lot # **233779**

Package Sealed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Sealed <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Received on Ice <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Temperature C of Cooler <b>29.2.1</b>	

Sampler Name:	<b>ERIC ELLIS</b>
Sampler Signature:	<i>[Signature]</i>
Project Name:	Characterization of RVAAP 14 AOCs
Project Number:	04-02-0030
Project Location:	RVAAP - Ravenna, Ohio
Lab PM:	Nancy McDonald

Wash Hold Time <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Preserv. Indicated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
pH Check OK <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Res CL2 Check OK <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A

Date Required		Refr #	
Hard Copy	21 Days	#7 Cool	
Fax/Email	14 Days	Volume	
		Preserv	

Sample Labels and COC Agree <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	COC not present
--	-----------------

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Additional Analyses / Remarks
1		LNWmw-026-GW	1-26-05	1000	W	G	x	x	x	x	x	x	
2		LNWmw-026-DUP	1-26-05	1000	W	G	x	x	x	x	x	x	
1	x	LNWmw-026-MS/MSD	1-26-05	1000	W	G	x	x	x	x	x	x	
3		TRIP BLANK	Lab	Lab	W	G	x						

Relinquished by: <i>[Signature]</i>	Company: <b>MKM Engineers</b>	Date: <b>1/24/05</b>	Time: <b>1:00</b>	Received By:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <i>[Signature]</i>	Company: <i>[Signature]</i>	Date: <b>1/27/05</b>	Time: <b>0910</b>
Matrix Key W - Water S - Soil SL - Sludge SO - Solid	WW - Wastewater SE - Sediment L - Leachate M - Miscellaneous	DL - Drum Liquid DS - Drum Solid W - Wipe	A - Air OL - Oil O -	Comments: Please call if sediment quantity is not sufficient - (limited by sediment supply)	Date Received <b>1/27/05</b>	Courier: <b>FE</b>	Hand Delivered: <b>[Signature]</b>

rpjsckl	Job Sample Receipt Checklist Report	V2
Job Number.: 233779	Location.: 57222	Check List Number.: 1
Customer Job ID.....:	Job Check List Date.: 01/27/2005	Date of the Report...: 02/02/2005
Project Number.: 20004694	Project Description.: USACE RVAAP 14 AOCs	Project Manager.....: nsm
Customer.....: MKM Engineers, Inc.	Contact.: Eric Ellis	
Questions ?	(Y/N)	Comments
Chain-of-Custody Present?.....	Y	
Were samples dropped off at or picked up by STL?..	N	
Custody seal on shipping container?.....	Y	
...If "yes", custody seal intact?.....	Y	
Custody seals on sample containers?.....	N	
...If "yes", custody seal intact?.....		
Samples iced?.....	Y	
Temperature of cooler acceptable? (4 deg C +/- 2). Y	2.9,2.4	
Samples received intact (good condition)?.....	Y	
Volatile samples acceptable? (no headspace).....	Y	
Correct containers used?.....	Y	
Adequate sample volume provided?.....	Y	
Samples preserved correctly?.....	Y	
Samples received within holding-time?.....	Y	
Agreement between COC and sample labels?.....	Y	
Radioactivity at or below background levels?.....	Y	
A Sample Discrepancy Report (SDR) was needed?.....	N	
If samples were shipped was there an air bill #?..	Y	
Sample Custodian Signature/Date.....	Y	

STL Sacramento  
 880 Riverside Parkway  
 West Sacramento, CA 95605  
 (910) 373-5600  
 Fax: (916) 372-1059

**Report To:**

Contact: **Eric Ellis**  
 Company: **MKM Engineers, Inc.**  
 Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
 Phone: **330-358-2920**  
 Fax: **330-358-2924**  
 Email: **eric.ellis@mkmengineers.com**

**Bill To:**

Contact: **Eric Ellis**  
 Company: **MKM Engineers, Inc.**  
 Address: **8451 State Route 5**  
**Ravenna, OH 44266**  
 Phone: **330-358-2920**  
 Fax: **330-358-2924**  
 PO #:

**Lab Lot #**

Package Sealed	Yes	No	Samples Sealed	Yes	No
Received on Ice	Yes	No	Samples Intact	Yes	No
Temperature C of Cooler					
Within Hold Time	Yes	No			
Preserv. Indicated	Yes	No	N/A		
pH Check OK	Yes	No	N/A		
Res CL2 Check OK	Yes	No	N/A		
Sample Labels and COC Agree	Yes	No	COC: not present		

Sampler Name: **ERIC ELLIS**  
 Sampler Signature: *[Signature]*  
 Project Name: **Characterization of RVAAP 14 AOCs**  
 Project Number: **04-02-0030**  
 Project Location: **RVAAP - Ravenna, Ohio**  
 Lab PM: **Robert Hbarak**

Date Required	21 Days	Refrg #	
Hard Copy	14 Days	# / Cont.	
Fax/Email		Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	Propellants (Nitrogandine/Nitrocellulose)	Additional Analyses / Remarks
		LNWmw-026-GW	1-26-05	1000	W	G	x	
		LNWmw-026-DUP	1-26-05	1000	W	G	x	
	X	LNWmw-026-MS/MSD	1-26-05	1000	W	G	x	

RECEIVED IN GOOD CONDITION  
 UNDER COC  
 JAN 27 2005  
*[Signature]*

Relinquished by: <i>[Signature]</i>	Company: <b>MKM Engineers</b>	Date: <b>1/26/05</b>	Time: <b>1000</b>	Received By: <i>[Signature]</i>	Company: <b>STL North Canton (Courier)</b>	Date: <b>12/05</b>	Time: <b>11:35</b>
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By:	Company:	Date:	Time:

**Matrix Key**  
 W - Water  
 S - Soil  
 SL - Sludge  
 SO - Solid  
 WW - Wastewater  
 SE - Sediment  
 L - Leachate  
 M - Miscellaneous  
 DL - Drum Liquid  
 DS - Drum Solid  
 W - Wipe  
 A Air  
 OL - Oil  
 O \_\_\_\_\_

Comments:

Date Received
Courier:
Hand Delivered:
Bill of Lading:

STL Chicago is part of Severn Trent Laboratories, Inc.





STL Chicago  
 2417 Bond St.  
 University Park IL 60486  
 708-534-5200  
 Fax: 708-534-5211

Report To:		Bill To:	
Contact:	Eric Ellis	Contact:	Eric Ellis
Company:	MKM Engineers, Inc.	Company:	MKM Engineers, Inc.
Address:	8451 State Route 5 Ravenna, OH 44266	Address:	8451 State Route 5 Ravenna, OH 44266
Phone:	330-358-2920	Phone:	330-358-2920
Fax:	330-358-2924	Fax:	330-358-2924
Email:	eric.ellis@mkmengineers.com	PO #:	

Lab Lot # **233967**

Sampler Name: **ERIC ELLIS**  
 Sampler Signature: *[Signature]*  
 Project Name: **Characterization of RVAAP 14 AOCs**  
 Project Number: **04-02-0030**  
 Project Location: **RVAAP - Ravenna, Ohio**  
 Lab PM: **Nancy McDonald**

Package Sealed Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Samples Sealed Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Received on Ice Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Samples Intact Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Temperature C of Cooler <b>2.8 2.5</b>	
Within Hold Time Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Preserv. Indicated Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
pH Check OK Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Res CL2 Check OK Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sample Labels and COC Agree Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> COC not present	

Date Required		Refrg #	
Hard Copy	21 Days	# / Cont.	
Fax/Email	14 Days	Volume	
		Preserv.	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC	SVOC	Explosives	TAL Metals	Nitroglycerin	Pest/PCBs	Nitrate	Additional Analyses / Remarks
1		LL8mw-005-ER	02-02-05	0815	W	G	x	x	x	x		x	x	
2		LL8mw-005-GW	02-02-05	1400	W	G	x	x	x	x		x	x	
3		LL7mw-005-GW	02-02-05	1000	W	G	x	x	x	x	x	x	x	
4		TRIP BLANK	Lab	Lab	W	G	x							

Relinquished by: <i>[Signature]</i>	Company: <b>MKM Engineers</b>	Date: <b>2/2/05</b>	Time: <b>1600</b>	Received By:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:
Relinquished by:	Company: <b>STL North Canton (Courier)</b>	Date:	Time:	Received By:	Company: <b>Fed Ex</b>	Date:	Time:
Relinquished by:	Company: <b>FedEx</b>	Date:	Time:	Received By: <i>[Signature]</i>	Company: <i>[Signature]</i>	Date: <b>2/3/05</b>	Time: <b>0900</b>

**Matrix Key**  
 W - Water      VW - Wastewater      DL - Drum Liquid      A - Air  
 S - Soil        SE - Sediment        DS - Drum Solid      OL - Oil  
 SL - Sludge    L - Leachate        W - Wipe              O \_\_\_\_\_  
 SO - Solid      M - Miscellaneous

Comments: Please call if sediment quantity is not sufficient - (limited by sediment supply)

Date Received: **2/3/05**  
 Courier: **EX**  
 Hand Delivered:  
 Bill of Lading: *see attach*

11

rpjckl	Job Sample Receipt Checklist Report		V2
Job Number.: 233967	Location.: 57222	Check List Number.: 1	Description.:
Customer Job ID.....:		Job Check List Date.: 02/03/2005	Date of the Report.: 02/10/2005
Project Number.: 20004694	Project Description.: USACE RVAAP 14 AOCs		Project Manager.....: nsm
Customer.....: MKM Engineers, Inc.		Contact.: Eric Ellis	
Questions ?	(Y/N)	Comments	
Chain-of-Custody Present?.....	Y		
Were samples dropped off at or picked up by STL?..	N		
Custody seal on shipping container?.....	Y		
...If "yes", custody seal intact?.....	Y		
Custody seals on sample containers?.....	N		
...If "yes", custody seal intact?.....			
Samples iced?.....	Y		
Temperature of cooler acceptable? (4 deg C +/- 2).	Y	2.8,2.5	
Samples received intact (good condition)?.....	Y		
Volatile samples acceptable? (no headspace).....	Y		
Correct containers used?.....	Y		
Adequate sample volume provided?.....	Y		
Samples preserved correctly?.....	Y		
Samples received within holding-time?.....	Y		
Agreement between CDC and sample labels?.....	Y		
Radioactivity at or below background levels?.....	Y		
A Sample Discrepancy Report (SDR) was needed?.....	N		
If samples were shipped was there an air bill #?..	Y		
Sample Custodian Signature/Date.....	Y		



STL

STL Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
(916) 373-5600
Fax: (916) 372-1059

Report To:

Contact: Eric Ellis
Company: MKM Engineers, Inc.
Address: 8451 State Route 5, Ravenna, OH 44266
Phone: 330-358-2920
Fax: 330-358-2924
Email: eric.ellis@mkmengengineers.com

Bill To:

Contact: Eric Ellis
Company: MKM Engineers, Inc.
Address: 8451 State Route 5, Ravenna, OH 44266
Phone: 330-358-2920
Fax: 330-358-2924
PO #:
Quote #:

Lab Lot #

Package Sealed: Yes/No, Samples Sealed: Yes/No
Received on Ice: Yes/No, Samples Intact: Yes/No
Temperature C of Cooler:

Within Hold Time: Yes/No
Preserv. Indicated: Yes/No/N/A
pH Check OK: Yes/No/N/A
Res CL2 Check OK: Yes/No/N/A
Sample Labels and COC Agree: Yes/No, COC not present

Sampler Name: ERIC ELLIS
Sampler Signature: [Signature]
Project Name: Characterization of RVAAP 14 AOCs
Project Number: 04-02-0030
Project Location: RVAAP - Ravenna, Ohio
Lab PM: Robert Hbarak

Table with columns: Date Required, Hard Copy, Fax/Email, Refrg #, # / Cont., Volume, Preserv.

Main data table with columns: Laboratory ID, MS-MSD, Client Sample ID, Sampling Date, Sampling Time, Matrix, Comp/Grab, Propellants (Nitrogens/Nitrocellulose), Additional Analyses / Remarks

Relinquished by: [Signature], Company: MKM Engineers, Date: 2/2/05, Time: 1600
Received By: [Signature], Company: STL North Canton (Courier), Date: [blank], Time: [blank]
Relinquished by: [Signature], Company: STL North Canton (Courier), Date: [blank], Time: [blank]
Received By: [Signature], Company: Fed Ex, Date: [blank], Time: [blank]
Relinquished by: [Signature], Company: FedEx, Date: [blank], Time: [blank]
Received By: [Signature], Company: STL, Date: 2/05, Time: 1045

Matrix Key
W - Water
S - Soil
SL - Sludge
SO - Solid
WW - Wastewater
SE - Sediment
L - Leachate
M - Miscellaneous
DL - Drum Liquid
DS - Drum Solid
W - Wipe
A Air
OL - Oil
O

Comments:
Date Received:
Courier:
Hand Delivered:
Bill of Lading:



# STL

## LOT RECEIPT CHECKLIST STL Sacramento

CLIENT STL-CHICAGO PM RU LOG # 30774  
 LOT# (QUANTIMS ID) G5B03017 QUOTE# 10357 LOCATION W16B

		Initials	Date
DATE RECEIVED	<u>2-3-05</u>	<u>Ge</u>	<u>2-3-05</u>
TIME RECEIVED	<u>0920</u>		
DELIVERED BY	<input checked="" type="checkbox"/> FEDEX <input type="checkbox"/> CA OVERNIGHT <input type="checkbox"/> CLIENT <input type="checkbox"/> AIRBORNE <input type="checkbox"/> GOLDENSTATE <input type="checkbox"/> DHL <input type="checkbox"/> UPS <input type="checkbox"/> BAX GLOBAL <input type="checkbox"/> GO-GETTERS <input type="checkbox"/> STL COURIER <input type="checkbox"/> COURIERS ON DEMAND <input type="checkbox"/> OTHER		
CUSTODY SEAL STATUS	<input checked="" type="checkbox"/> INTACT <input type="checkbox"/> BROKEN <input type="checkbox"/> N/A		
CUSTODY SEAL #(S)	<u>616276</u> <u>616266</u>		
SHIPPING CONTAINER(S)	<input type="checkbox"/> STL <input type="checkbox"/> CLIENT <input type="checkbox"/> N/A		
TEMPERATURE RECORD (IN °C)	IR      1 <input type="checkbox"/> 3 <input type="checkbox"/> OTHER <input type="checkbox"/>		
COC #(S)	<u>N/A</u>		
TEMPERATURE BLANK	<u>2°C</u>		
SAMPLE TEMPERATURE	<u>2°C</u>		
COLLECTOR'S NAME:	<input checked="" type="checkbox"/> Verified from COC <input type="checkbox"/> Not on COC		
pH MEASURED	<input type="checkbox"/> YES <input type="checkbox"/> ANOMALY <input checked="" type="checkbox"/> N/A		
LABELED BY.....			
LABELS CHECKED BY.....			
PEER REVIEW	<input checked="" type="checkbox"/> NA		
SHORT HOLD TEST NOTIFICATION			
	SAMPLE RECEIVING		
	WETCHEM <input checked="" type="checkbox"/> N/A		
	VOA-ENCORES <input checked="" type="checkbox"/> N/A		
<input type="checkbox"/> METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL	<input checked="" type="checkbox"/> N/A		
<input checked="" type="checkbox"/> COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES	<input type="checkbox"/> N/A		
<input type="checkbox"/> Clouseau	<input type="checkbox"/> TEMPERATURE EXCEEDED (2 °C – 6 °C)*1	<input checked="" type="checkbox"/> N/A	
<input type="checkbox"/> WET ICE	<input type="checkbox"/> BLUE ICE <input type="checkbox"/> GEL PACK <input type="checkbox"/> NO COOLING AGENTS USED		<input type="checkbox"/> PM NOTIFIED

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

\*1 Acceptable temperature range for State of Wisconsin samples is <= 4°C.



Prime Engineering  
 1038 Ghent Road  
 Akron, Ohio 44333  
 (330) 666-5432  
 Fax. (330) 666-4130

**Report To:**

Contact: **Eric Ellis**  
 Company: **MKM Engineers, Inc.**  
 Address: **8451 State Route 5  
 Ravenna, OH 44266**  
 Phone: **330-358-2920**  
 Fax: **330-358-2924**  
 Email: **eric.ellis@mkmengineers.com**

**Bill To:**

Contact: **Eric Ellis**  
 Company: **MKM Engineers, Inc.**  
 Address: **8451 State Route 5  
 Ravenna, OH 44266**  
 Phone: **330-358-2920**  
 Fax: **330-358-2924**  
 PO #:  
 Quote #:

**Lab Lot #**

Package Sealed	Samples Sealed	
Yes No	Yes No	Yes No
Received on Ice	Samples Intact	
Yes No	Yes No	Yes No
Temperature C of Cooler		
Within Hold Time		
Yes No		
Preserv. Indicated		
Yes No N/A		
pH Check OK		
Yes No N/A		
Res CL2 Check OK		
Yes No N/A		
Sample Labels and COC Agree		
Yes No	COC not present	

Sampler Name: **Eric Ellis**  
 Sampler Signature: *[Signature]*  
 Project Name: **Characterization of RVAAP 14 AOCs**  
 Project Number: **04-02-0030**  
 Project Location: **RVAAP - Ravenna, Ohio**  
 Lab PM: **Steve Moleski**

Date Required		Refrg #																
Hard Copy	21 Days	# / Cont.																
Fax/Email	14 Days	Volume																
		Preserv.																

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	TOC	Grain Size	Moisture Cont. (ASTM D2216)	Atterburg Limits (ASTM D4318)	UCS (ASTM D2487)	pH (EPA 150.1)	Spec. Grav. (ASTM D854)								Additional Analyses / Remarks	
		L12MW-242 (8-10 ft)	11-10-04	1520	S	C	x	x	x	x	x	x	x									
		L12MW-242 (12-14 ft)	11-10-04	1530	S	C	x	x	x	x	x	x	x									Shelby Tube
		L12MW-244 (6-8 ft)	11-10-04	0925	S	C	x	x	x	x	x	x	x									Shelby Tube
		LL8sd-002M-SD	11-08-04	1100	SE	C	x	x														Shelby Tube
		LL7sd-012M-SD	11-10-04	1340	SE	C	x	x														
		B12sd-024M-SD	11-05-04	1020	SE	C	x	x														
		LL8sd-006M-SD	11-08-04	1540	SE	C	x	x														
		CBLsd-003M-SD	11-08-04	1540	SE	C	x	x														
		LL8sd-003M-SD	11-08-04	1415	SE	C	x	x														
		LL8sd-001M-SD	11-08-04	1625	SE	C	x	x														
		B12sd-023M-SD	11-05-04	1125	SE	C	x	x														
		CBLsd-001M-SD	11-09-04	1505	SE	C	x	x														

Relinquished by: *[Signature]*  
 Company: **MKM Engineers** Date: **11/11/04** Time: **1630**  
 Relinquished by:  
 Company:  
 Date:  
 Time:

Received By: *[Signature]* Company: **Prime Engineering** Date: **11-11-04** Time: **5:05 (1705)**  
 Received By:  
 Company:  
 Date:  
 Time:

**Matrix Key**  
 W - Water  
 S - Soil  
 SL - Sludge  
 SO - Solid  
 WW - Wastewater  
 SE - Sediment  
 L - Leachate  
 M - Miscellaneous  
 DL - Drum Liquid  
 DS - Drum Solid  
 W - Wipe  
 A Air  
 OL - Oil  
 O \_\_\_\_\_

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Comments:  
 Date Received  
 Courier:  
 Hand Delivered:  
 Bill of Lading:



Prime Engineering  
 1038 Ghent Road  
 Akron, Ohio 44333  
 (330) 666-5432  
 Fax. (330) 666-4130

Report To:

Contact: Eric Ellis  
 Company: MKM Engineers, Inc.  
 Address: 8451 State Route 5  
 Ravenna, OH 44266  
 Phone: 330-358-2920  
 Fax: 330-358-2924  
 Email: eric.ellis@mkmengengineers.com

Bill To:

Contact: Eric Ellis  
 Company: MKM Engineers, Inc.  
 Address: 8451 State Route 5  
 Ravenna, OH 44266  
 Phone: 330-358-2920  
 Fax: 330-358-2924  
 PO #:  
 Quote #:

Page



Lab Lot #

Sampler Name: ERIC ELLIS  
 Sampler Signature: [Signature]  
 Project Name: Characterization of RVAAP 14 AOCs  
 Project Number: 04-02-0030  
 Project Location: RVAAP - Ravenna, Ohio  
 Lab PM: Steve Moleski

Package Sealed	Yes	No	Samples Sealed	Yes	No
Received on Ice	Yes	No	Samples Intact	Yes	No
Temperature C of Cooler:					

Within Hold Time	Yes	No	
Preserv. Indicated	Yes	No	N/A
pH Check OK	Yes	No	N/A
Res. CL2 Check OK	Yes	No	N/A
Sample Labels and COC Agree	Yes	No	COC not present

Date Required		Refrg #																	
Hard Copy	21 Days	#/Cont																	
Fax/Email	14 Days	Volume																	
		Preserv																	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	TOC	Grain Size	Moisture Cont. (ASTM D2216)	Atterburg Limits (ASTM D4318)	UCS (ASTM D2487)	pH (EPA 150.1)	Spec. Grav. (ASTM D854)	Additional Analyses / Remarks
		ASYmw-007 (8-10 ft)	11-12-04	1230	S	C		x	x	x	x	x	x	Shelby Tube
		ASYmw-001 (4-6 ft)	11-15-04	1415	S	C		x	x	x	x	x	x	Shelby Tube
		ASYmw-003 (6-8 ft)	11-11-04	1245	S	C		x	x	x	x	x	x	Shelby Tube
		PIRsd-001M-SD	11-17-04	1520	SE	C	x	x						
		PIRsd-002M-SD	11-17-04	1620	SE	C	x	x						
		CBLsd-004M-SD	11-11-04	1445	SE	C	x	x						

Relinquished by: [Signature]  
 Company: MKM Engineers  
 Date: 11/18/04  
 Time: 1630

Received By: [Signature]  
 Company: Prime Engineering  
 Date: [Blank]  
 Time: [Blank]

Matrix Key  
 W - Water  
 S - Soil  
 SL - Sludge  
 SO - Solid  
 WW - Wastewater  
 SE - Sediment  
 L - Leachate  
 M - Miscellaneous  
 DL - Drum Liquid  
 DS - Drum Solid  
 W - Wipe  
 A - Air  
 OL - Oil  
 O - \_\_\_\_\_  
 STL Chicago is part of Severn Trent Laboratories, Inc.

Comments:  
 Date Received:  
 Courier:  
 Hand Delivered:  
 Bill of Lading:

COPY





Prime Engineering  
 1038 Ghent Road  
 Akron, Ohio 44333  
 (330) 666-5432  
 Fax. (330) 666-4130

Report To:

Contact: Eric Ellis  
 Company: MKM Engineers, Inc.  
 Address: 8451 State Route 5  
 Ravenna, OH 44266  
 Phone: 330-358-2920  
 Fax: 330-358-2924  
 Email: eric.ellis@mkmengineers.com

Bill To:

Contact: Eric Ellis  
 Company: MKM Engineers, Inc.  
 Address: 8451 State Route 5  
 Ravenna, OH 44266  
 Phone: 330-358-2920  
 Fax: 330-358-2924  
 PO #:  
 Quote #:

Page **COPY** 1  
 Lab Lot #

Sampler Name: Eric Ellis  
 Sampler Signature: [Signature]  
 Project Name: Characterization of RVAAP 14 AOCs  
 Project Number: 04-02-0030  
 Project Location: RVAAP - Ravenna, Ohio  
 Lab PM: Steve Moleski

Package Sealed	Yes	No	Samples Sealed	Yes	No
Received on Ice	Yes	No	Samples Intact	Yes	No
Temperature C of Cooler					

Within Hold Time	Yes	No	
Preserv. Indicated	Yes	No	N/A
pH Check OK	Yes	No	N/A
Res. CL2 Check OK	Yes	No	N/A
Sample Labels and COC Agree	Yes	No	COC not present

Date Required	Hard Copy	Fax/Email	Refrig #	#/Cont	Volume	Preserv
	21 Days					
	14 Days					

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	TOC	Grain Size	Moisture Cont. (ASTM D2216)	Atterburg Limits (ASTM D4318)	UCS (ASTM D2487)	pH (EPA 150.1)	Spec. Grav. (ASTM D854)	Additional Analyses / Remarks
		NTAmw-111 (4-6 ft)	12-03-04	0845	S	C		x	x	x	x	x	x	
		NTAmw-112 (10-12 ft)	12-02-04	1250	S	C		x	x	x	x	x	x	Shelby Tube
		NTAmw-113 (6-8 ft)	12-02-04	0852	S	C		x	x	x	x	x	x	Shelby Tube
		LL8mw-004 (6-8 ft)	12-06-04	1250	S	C		x	x	x	x	x	x	Shelby Tube

Relinquished by: [Signature]	Company: MKM Engineers	Date: 7 Dec 04	Time: 1630	Received By:	Company: Prime Engineering	Date:	Time:
Relinquished by:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:

Matrix Key  
 W - Water  
 S - Soil  
 SL - Sludge  
 SO - Solid  
 WW - Wastewater  
 SE - Sediment  
 L - Leachate  
 M - Miscellaneous

DL - Drum Liquid  
 DS - Drum Solid  
 W - Wipe  
 A - Air  
 OL - Oil  
 O -

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Comments: Please run Grain Size according to conversations/agreements w/ Stan Levenger (MKM Project Manager).

Date Received:  
 Courier:  
 Hand Delivered:  
 Bill of Lading:

**COPY**

Prime Engine  
 1038 Ghent Road  
 Akron, Ohio 44333  
 (330) 666-5432  
 Fax. (330) 666-4130

Report To:

Contact: Eric Ellis  
 Company: MKM Engineers, Inc.  
 Address: 8451 State Route 5  
 Ravenna, OH 44266  
 Phone: 330-358-2920  
 Fax: 330-358-2924  
 Email: eric.ellis@mkmengengineers.com

Bill To:

Contact: Eric Ellis  
 Company: MKM Engineers, Inc.  
 Address: 8451 State Route 5  
 Ravenna, OH 44266  
 Phone: 330-358-2920  
 Fax: 330-358-2924  
 PO #:  
 Quote #:

Lab Lot #

Sampler Name: **ERIC ELLIS**  
 Sampler Signature: *[Signature]*  
 Project Name: **Characterization of RVAAP 14 AOCs**  
 Project Number: **04-02-0030**  
 Project Location: **RVAAP - Ravenna, Ohio**  
 Lab PM: **Steve Moleski**

Package Sealed: Yes No	Samples Sealed: Yes No
Received on Ice: Yes No	Samples Intact: Yes No
Temperature C of Cooler	
Within Hold Time: Yes No	
Preserv. Indicated: Yes No N/A	
pH Check OK: Yes No N/A	
Res. CL2 Check OK: Yes No N/A	
Sample Labels and COC Agree: Yes No COC not present	

Date Required		Refr. #																	
Hard Copy	21 Days	# / Cont.																	
Fax/Email	14 Days	Volume																	
		Preserv.																	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	TOC	Grain Size	Moisture Cont. (ASTM D2216)	Atterburg Limits (ASTM D4318)	UCS (ASTM D2487)	pH (EPA 150.1)	Spec. Grav. (ASTM D854)	Additional Analyses / Remarks
		LL5mw-003 (8-10 ft)	12-09-04	1050	S	C		X	X	X	X	X	X	
		LL8mw-001 (10-12 ft)	12-08-04	0840	S	C		X	X	X	X	X	X	Shelby Tube
		LL8mw-006 (8-10 ft)	12-07-04	0840	S	C		X	X	X	X	X	X	Shelby Tube
		LL5mw-001 (6-8 ft)	12-08-04	1240	S	C		X	X	X	X	X	X	Shelby Tube
		LL5mw-006 (10-12 ft)	12-10-04	0845	S	C		X	X	X	X	X	X	Shelby Tube

Relinquished by: *[Signature]*  
 Company: **MKM Engineers**  
 Date: **12/10/04**  
 Time: **1630**

Received By: \_\_\_\_\_  
 Company: **Prime Engineering**  
 Date: \_\_\_\_\_  
 Time: \_\_\_\_\_

- Matrix Key  
 W - Water  
 S - Soil  
 SL - Sludge  
 SO - Solid  
 WW - Wastewater  
 SE - Sediment  
 L - Leachate  
 M - Miscellaneous  
 DL - Drum Liquid  
 DS - Drum Solid  
 W - Wipe  
 A - Air  
 OL - Oil  
 O - \_\_\_\_\_

Comments: Please run Grain Size according to conversations/agreements w/ Stan Levenger (MKM Project Manager).  
 Date Received: \_\_\_\_\_  
 Courier: \_\_\_\_\_  
 Hand Delivered: \_\_\_\_\_  
 Bill of Lading: \_\_\_\_\_



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 Akron, Ohio 44333  
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 Ravenna, OH 44266**  
 Phone: **330-358-2920**  
 Fax: **330-358-2924**  
 Email: **eric.ellis@mkmengineers.com**

**Bill To:**

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 Ravenna, OH 44266**  
 Phone: **330-358-2920**  
 Fax: **330-358-2924**  
 PO #:  
 Quote #:

**Lab Lot #**

Sampler Name: **ERIC ELLIS**  
 Sampler Signature: *[Signature]*  
 Project Name: **Characterization of RVAAP 14 AOCs**  
 Project Number: **04-02-0030**  
 Project Location: **RVAAP - Ravenna, Ohio**  
 Lab PM: **Steve Moleski**

Package Sealed Yes No	Samples Sealed Yes No
Received on Ice Yes No	Samples Intact Yes No
Temperature C of Cooler	
Within Hold Time Yes No	
Preserv. Indicated Yes No N/A	
pH Check OK Yes No N/A	
Res CL2 Check OK Yes No N/A	
Sample Labels and COC Agree Yes No COC not present	

Date Required	21 Days	Refrig #	
Hard Copy	14 Days	# / Cont.	
Fax/Email		Volume	
		Preserv.	

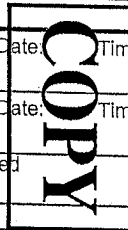
Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	TOC	Grain Size	Moisture Cont. (ASTM D2216)	Atterburg Limits (ASTM D4318)	UCS (ASTM D2487)	pH (EPA 150.1)	Spec. Grav. (ASTM D854)	Additional Analyses / Remarks
		LNWmw-025 (2-4 ft)	12-15-04	1325	S	C		X	X	X	X	X	X	Shelby Tube
		LNWmw-024 (4-6 ft)	12-15-04	0915	S	C		X	X	X	X	X	X	Shelby Tube
		L10mw-001 (6-8 ft)	12-16-04	1545	S	C		X	X	X	X	X	X	Shelby Tube
		CBLmw-001 (0-2 ft)	12-13-04	0930	S	C		X	X	X	X	X	X	Shelby Tube

Relinquished by: *[Signature]* Company: **MKM Engineers** Date: **21 Dec 04** Time: **1630**  
 Received By: **Prime Engineering** Company: **Prime Engineering** Date: \_\_\_\_\_ Time: \_\_\_\_\_

**Matrix Key**  
 W - Water  
 S - Soil  
 SL - Sludge  
 SO - Solid  
 WW - Wastewater  
 SE - Sediment  
 L - Leachate  
 M - Miscellaneous  
 DL - Drum Liquid  
 DS - Drum Solid  
 W - Wipe  
 A Air  
 OL - Oil  
 O \_\_\_\_\_

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Comments: Please run Grain Size according to conversations/agreements w/ Stan Levenger (MKM Project Manager).  
 Date Received: \_\_\_\_\_  
 Courier: \_\_\_\_\_  
 Hand Delivered: \_\_\_\_\_  
 Bill of Lading: \_\_\_\_\_





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 1038 Ghent Road  
 Akron, Ohio 44333  
 (330) 666-5432  
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 Company: **MKM Engineers, Inc.**  
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**Ravenna, OH 44266**  
 Phone: **330-358-2920**  
 Fax: **330-358-2924**  
 Email: **eric.ellis@mkmengineers.com**

**Bill To:**

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 Phone: **330-358-2920**  
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 PO #:  
 Quote #:



**Lab Lot #**

Sampler Name: **ERIC ELLIS**  
 Sampler Signature: *[Signature]*  
 Project Name: **Characterization of RVAAP 14 AOCs**  
 Project Number: **04-02-0030**  
 Project Location: **RVAAP - Ravenna, Ohio**  
 Lab PM: **Steve Moleski**

Package Sealed Yes No	Samples Sealed Yes No
Received on Ice Yes No	Samples Intact Yes No
Temperature C of Cooler	
Within Hold Time Yes No	
Preserv. Indicated Yes No N/A	
pH Check OK Yes No N/A	
Res GL2 Check OK Yes No N/A	
Sample Labels and COC Agree Yes No COC not present	

Date Required		Refrg #	
Hard Copy	21 Days	# / Cont.	
Fax/Email	14 Days	Volume	
		Preserv	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	TOC	Grain Size	Moisture Cont. (ASTM D2216)	Atterburg Limits (ASTM D4318)	UCS (ASTM D2487)	pH (EPA 150.1)	Spec. Grav. (ASTM D854)	Additional Analyses / Remarks
		LL7mw-005 (0-2 ft)	01-11-05	1420	S	C		x	x	x	x	x	x	Shelby Tube
		LL7mw-006 (2-4 ft)	01-12-05	0845	S	C		x	x	x	x	x	x	Shelby Tube
		LL7mw-003 (4-6 ft)	01-13-05	1100	S	C		x	x	x	x	x	x	Shelby Tube

Relinquished by: *[Signature]* Company: **MKM Engineers** Date: **1/21/05** Time: **1630**

Relinquished by: Company: Date: Time:

Received By: Company: **Prime Engineering** Date: Time:

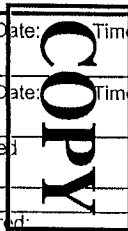
Received By: Company: Date: Time:

**Matrix Key**  
 W - Water      WW - Wastewater      DL - Drum Liquid      A Air  
 S - Soil        SE - Sediment        DS - Drum Solid      OL - Oil  
 SL - Sludge    L - Leachate        W - Wipe              O \_\_\_\_\_  
 SO - Solid     M - Miscellaneous

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Comments: Please run Grain Size according to conversations/agreements w/ Stan Levenger (MKM Project Manager).

Date Received:  
 Courier:  
 Hand Delivered:  
 Bill of Lading:





# Appendix X

## Table EB 1 – Equipment Blank Summary Table

General

**Table EB-1**  
**Equipment Blank Summary Table**  
**RVAAP 14 AOC Characterization**  
**Ravenna Army Ammunition Plant, Ravenna, Ohio**

					ASYS-026M-ER	ASYSW-008-ER	ATASS-002M-ER	L10mw-006-ER	L10scd-005-ER	L10ss-027M-ER	L15mw-004-ER	LL5ss-005M-ER	LL7ss-023M-ER	LL8mw-005-ER	LL8mw-006-ER	LL8scd-006M-ER	LL8ss-019-ER	LNWmw-024-ER
Sample Date:					11/03/2004	12/08/2004	11/08/2004	01/14/2005	12/14/2004	11/18/2004	01/04/2005	11/18/2004	11/09/2004	02/02/2005	01/21/2005	11/08/2004	11/18/2004	01/12/2005
Group	Method	Parameter	Region 9 PRG (Tap Water)	Units														
Metals	6010B	Aluminum	36499	nc	ug/L	140	75 U	86	75 U	75 U	27	75 U	75 U	39	75 U	75 U	28	75 U
	6010B	Barium	2555	nc	ug/L	2.1	5 U	2.1	5 U	1.4	1.8	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	6010B	Beryllium	73	nc	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	6010B	Cadmium	18	nc	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	6010B	Calcium	--[n]		ug/L	470	42.5 U	1600	420	270	700	600	500	470	65 U	92	1200	520
	6010B	Chromium	109	nc	ug/L	17	5 U	27	5 U	1.7	4.4	5 U	11	3.2	1.2	5 U	1.6	5 U
	6010B	Cobalt	730	nc	ug/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.485 U	2.5 U	2.5 U	2.5 U
	6010B	Copper	1460	nc	ug/L	8.1	5 U	3.4	5 U	5 U	4	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	6010B	Iron	10950	nc	ug/L	310	130	420	60 U	60 U	76	60 U	80	68	60 U	60 U	45	60 U
	6010B	Magnesium	--[n]		ug/L	50	50 U	93	14	50 U	41	21	27	32	9.8	50 U	25	12
	6010B	Manganese	876	nc	ug/L	10	5 U	11	5 U	0.64	1.8	1.1	1.8	2.6	5 U	5 U	1	5 U
	6010B	Nickel	730	nc	ug/L	37	5 U	38	5 U	5 U	1.8	5 U	4.8	5 U	5 U	5 U	5 U	5 U
	6010B	Potassium	--[n]		ug/L	90 U	65 U	250	105 U	70 U	75 U	105 U	75 U	140	110 U	49.5 U	190	100 U
	6010B	Selenium	182	nc	ug/L	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U
	6010B	Silver	182	nc	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1	5 U	5 U	5 U
	6010B	Sodium	--[n]		ug/L	750 U	750 U	750 U	750 U	750 U	750 U	750 U	750 U	750 U	750 U	750 U	750 U	750 U
	6010B	Vanadium	36	nc	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	6010B	Zinc	10950	nc	ug/L	25	1.15 U	110	6.8	2.5 U	18	6 U	13	19	1.6	15 U	78	5.7
	7041	Antimony	15	nc	ug/L	3.75 U	3.75 U	3.75 U	3.75 U	3.75 U	3.75 U	3.75 U	3.75 U	3.75 U	3.75 U	3.75 U	3.75 U	3.75 U
	7060A	Arsenic	0.045	ca	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	7196A	Hexavalent Chromium	109	nc	ug/L													
	7421	Lead	15	mcl	ug/L	120	1.5 U	37	1.5 U	1.5 U	19	1.5 U	83	17	1.5 U	1.5 U	1.5 U	0.55 U
	7470A	Mercury	11	nc	ug/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
	7841	Thallium	2.4	nc	ug/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1.4	2 U	2 U	2 U
	Pesticides	8081A	4,4'-DDD	0.28	ca	ug/L		0.055 U		0.055 U		0.055 U	0.055 U	0.055 U	0.055 U	0.05 UJ	0.05 U	0.055 U
		8081A	4,4'-DDE	0.20	ca	ug/L		0.05 U		0.0485 U		0.048 U	0.055 J	0.0495 U	0.0485 U	0.0475 UJ	0.047 U	0.048 U
		8081A	4,4'-DDT	0.20	ca	ug/L		0.075 U		0.075 U		0.07 U	0.058 J	0.075 U	0.075 U	0.07 UJ	0.07 U	0.07 U
8081A		Aldrin	0.0040	ca	ug/L		0.05 U		0.0485 U		0.048 U	0.049 U	0.0495 U	0.0485 U	0.0475 UJ	0.047 U	0.048 U	
8081A		alpha-BHC	0.011	nc	ug/L		0.075 U		0.075 U		0.07 U	0.075 U	0.075 U	0.075 U	0.07 UJ	0.07 U	0.07 U	
8081A		alpha-Chlordane	0.19	ca	ug/L		0.025 U		0.0245 U		0.024 U	0.0245 U	0.025 U	0.0245 U	0.024 UJ	0.0235 U	0.024 U	
8081A		beta-BHC	0.037	ca	ug/L		0.05 U		0.0485 U		0.048 U	0.049 U	0.0495 U	0.0485 U	0.0475 UJ	0.047 U	0.048 U	
8081A		delta-BHC	--		ug/L		0.05 U		0.0485 U		0.048 U	0.049 U	0.0495 U	0.0485 U	0.0475 UJ	0.047 U	0.048 U	
8081A		Dieldrin	0.0042	ca	ug/L		0.05 U		0.0485 U		0.048 U	0.049 U	0.0495 U	0.0485 U	0.0475 UJ	0.047 U	0.048 U	
8081A		Endosulfan I	220	nc	ug/L		0.05 U		0.0485 U		0.048 U	0.049 U	0.0495 U	0.0485 U	0.0475 UJ	0.047 U	0.048 U	
8081A		Endosulfan II	220	nc	ug/L		0.075 U		0.075 U		0.07 U	0.075 U	0.075 U	0.075 U	0.07 UJ	0.07 U	0.07 U	
8081A		Endosulfan sulfate	220	nc	ug/L		0.075 U		0.075 U		0.07 U	0.075 U	0.075 U	0.075 U	0.07 UJ	0.07 U	0.07 U	
8081A		Endrin	11	nc	ug/L		0.05 U		0.0485 U		0.048 U	0.049 U	0.0495 U	0.0485 U	0.0475 UJ	0.047 U	0.048 U	
8081A		Endrin aldehyde	--		ug/L		0.075 U		0.075 U		0.07 U	0.075 U	0.075 U	0.075 U	0.07 UJ	0.07 U	0.07 U	
8081A		Endrin ketone	--		ug/L		0.05 U		0.0485 U		0.048 U	0.049 U	0.0495 U	0.0485 U	0.0475 UJ	0.047 U	0.048 U	
8081A		gamma-BHC	0.052	ca	ug/L		0.075 U		0.075 U		0.07 U	0.075 U	0.075 U	0.075 U	0.07 UJ	0.07 U	0.07 U	
8081A		gamma-Chlordane	0.19	ca	ug/L		0.05 U		0.0485 U		0.048 U	0.049 U	0.0495 U	0.0485 U	0.0475 UJ	0.047 U	0.048 U	
8081A		Heptachlor	0.015	ca	ug/L		0.075 U		0.075 U		0.07 U	0.075 U	0.075 U	0.075 U	0.07 UJ	0.07 U	0.07 U	
8081A		Heptachlor epoxide	0.0074	ca	ug/L		0.075 U		0.075 U		0.07 U	0.075 U	0.075 U	0.075 U	0.07 UJ	0.07 U	0.07 U	
8081A		Methoxychlor	182	nc	ug/L		0.3 U		0.29 U		0.29 U	0.295 U	0.295 U	0.29 U	0.285 UJ	0.285 U		0.29 U



**Table EB-1**  
**Equipment Blank Summary Table**  
**RVAAP 14 AOC Characterization**  
**Ravenna Army Ammunition Plant, Ravenna, Ohio**

					Sample Date:	ASYss-026M-ER	ASYsw-008-ER	ATAss-002M-ER	L10mw-006-ER	L10sd-005-ER	L10ss-027M-ER	LL5mw-004-ER	LL5ss-005M-ER	LL7ss-023M-ER	LL8mw-005-ER	LL8mw-006-ER	LL8sd-006M-ER	LL8ss-019-ER	LNWmw-024-ER
					11/03/2004	12/08/2004	11/08/2004	01/14/2005	12/14/2004	11/18/2004	01/04/2005	11/18/2004	11/09/2004	02/02/2005	01/21/2005	11/08/2004	11/18/2004	01/12/2005	
Group	Method	Parameter	Region 9 PRG (Tap Water)	Units															
	8081A	Toxaphene	0.061	ca	ug/L		0.25 U		0.245 U		0.24 U	0.245 U	0.25 U	0.245 U	0.24 UJ	0.235 U			0.24 U
PCBs	8082	Aroclor 1016	0.96	ca	ug/L		0.3 U		0.29 U		0.29 U	0.295 U	0.295 U	0.29 U	0.285 UJ	0.285 U			0.29 U
	8082	Aroclor 1221	0.034	ca	ug/L		0.65 U		0.65 U		0.6 U	0.65 U	0.65 U	0.65 U	0.6 UJ	0.6 U			0.6 U
	8082	Aroclor 1232	0.034	ca	ug/L		0.65 U		0.65 U		0.6 U	0.65 U	0.65 U	0.65 U	0.6 UJ	0.6 U			0.6 U
	8082	Aroclor 1242	0.034	ca	ug/L		0.65 U		0.65 U		0.6 U	0.65 U	0.65 U	0.65 U	0.6 UJ	0.6 U			0.6 U
	8082	Aroclor 1248	0.034	ca	ug/L		0.75 U		0.75 U		0.7 U	0.75 U	0.75 U	0.75 U	0.7 UJ	0.7 U			0.7 U
	8082	Aroclor 1254	0.034	ca	ug/L		0.65 U		0.65 U		0.6 U	0.65 U	0.65 U	0.65 U	0.6 UJ	0.6 U			0.6 U
	8082	Aroclor 1260	0.034	ca	ug/L		0.3 U		0.29 U		0.29 U	0.295 U	0.295 U	0.29 U	0.285 UJ	0.285 U			0.29 U
VOCs	8260B	1,1,1-Trichloroethane	3172	nc	ug/L		0.5 U		0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U			0.5 U
	8260B	1,1,2,2-Tetrachloroethane	0.055	ca	ug/L		0.5 U		0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U			0.5 U
	8260B	1,1,2-Trichloroethane	0.20	ca	ug/L		0.5 U		0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U			0.5 U
	8260B	1,1-Dichloroethane	811	nc	ug/L		0.5 U		0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U			0.5 U
	8260B	1,1-Dichloroethene	339	nc	ug/L		0.5 U		0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U			0.5 U
	8260B	1,2-Dibromoethane	0.0056	ca	ug/L		0.5 U		0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U			0.5 U
	8260B	1,2-Dichloroethane	0.12	ca	ug/L		0.5 U		0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U			0.5 U
	8260B	1,2-Dichloroethene (total)	120	nc	ug/L		0.5 U		0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U			0.5 U
	8260B	1,2-Dichloropropane	0.16	ca	ug/L		0.5 U		0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U			0.5 U
	8260B	2-Butanone	6968	nc	ug/L		5 U		5 U		5 U	5 U	5 U	5 U	5 U	5 U			5 U
	8260B	2-Hexanone	2000	nc	ug/L		5 U		5 U		5 U	5 U	5 U	5 U	5 U	5 U			5 U
	8260B	4-Methyl-2-pentanone	1993	nc	ug/L		5 U		5 U		5 U	5 U	5 U	5 U	5 U	5 U			5 U
	8260B	Acetone	5475	nc	ug/L		5 U		5 U		5 U	5 U	5 U	5 U	5 U	5 U			5 U
	8260B	Benzene	0.35	ca	ug/L		0.5 U		0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U			0.5 U
	8260B	Bromochloromethane	--		ug/L		0.5 U		0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U			0.5 U
	8260B	Bromodichloromethane	0.18	ca	ug/L		0.5 U		0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U			0.5 U
	8260B	Bromoform	8.5	ca	ug/L		0.5 U		0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U			0.5 U
	8260B	Bromomethane	8.7	nc	ug/L		0.5 U		0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U			0.5 U
	8260B	Carbon disulfide	1043	nc	ug/L		2.5 U		2.5 U		2.5 UJ	2.5 U	2.5 U	2.5 U	2.5 UJ	2.5 U			2.5 U
	8260B	Carbon tetrachloride	0.17	ca	ug/L		0.5 U		0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U			0.5 U
	8260B	Chlorobenzene	106	nc	ug/L		0.5 U		0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U			0.5 U
	8260B	Chloroethane	4.6	ca	ug/L		0.5 U		0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U			0.5 U
	8260B	Chloroform	0.17	ca	ug/L		0.5 U		0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U			0.5 U
	8260B	Chloromethane	158	nc	ug/L		0.5 U		0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U			0.5 U
	8260B	cis-1,2-Dichloroethene	61	nc	ug/L		0.5 U		0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U			0.5 U
	8260B	cis-1,3-Dichloropropene	0.40	ca	ug/L		0.5 U		0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U			0.5 U
	8260B	Dibromochloromethane	0.13	ca	ug/L		0.5 U		0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U			0.5 U
	8260B	Ethylbenzene	1340	nc	ug/L		0.5 U		0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U			0.5 U
	8260B	m&p-Xylenes	206	nc	ug/L		1 U		1 U		1 U	1 U	1 U	1 U	1 U	1.2 J			1 U
	8260B	Methylene chloride	4.3	ca	ug/L		0.75 U		1.25 U		0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U			0.75 U
	8260B	o-Xylene	206	nc	ug/L		0.5 U		0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U			0.5 U
	8260B	Styrene	1641	nc	ug/L		0.5 U		0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U			0.5 U
8260B	Tetrachloroethene	0.10	ca	ug/L		0.5 U		0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U			0.5 U	
8260B	Toluene	723	nc	ug/L		1.1		0.5 U		0.5 U	2.7	0.5 U	0.5 U	0.5 U	0.5 U			0.5 U	
8260B	Total Xylenes	206	nc	ug/L		0.5 U		0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	1.3	0.5 U			0.5 U	



**Table EB-1**  
**Equipment Blank Summary Table**  
**RVAAP 14 AOC Characterization**  
**Ravenna Army Ammunition Plant, Ravenna, Ohio**

Group	Method	Parameter	Region 9 PRG (Tap Water)	Units	Sample Date:	ASyss-026M-ER	ASySw-008-ER	ATAss-002M-ER	L10mw-006-ER	L10sd-005-ER	L10ss-027M-ER	LL5mw-004-ER	LL5ss-005M-ER	LL7ss-023M-ER	LL8mw-005-ER	LL8mw-006-ER	LL8sd-006M-ER	LL8ss-019-ER	LNWmw-024-ER
					11/03/2004	12/08/2004	11/08/2004	01/14/2005	12/14/2004	11/18/2004	01/04/2005	11/18/2004	11/09/2004	02/02/2005	01/21/2005	11/08/2004	11/18/2004	01/12/2005	
	8270C	Bis(2-ethylhexyl) phthalate	4.8	ca	ug/L		7.5 U		7.5 U		12 J	7.5 U	7 U	7 U	7 U	7 U			7.5 U
	8270C	Butylbenzyl phthalate	7300	nc	ug/L		1 U		1 U		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U			1 U
	8270C	Carbazole	3.4	ca	ug/L		2.45 U		2.5 U		2.45 U	2.45 U	2.4 U	2.4 U	2.4 U	2.4 U			2.55 U
	8270C	Chrysene	9.2	ca	ug/L		0.245 U		0.25 U		0.245 U	0.245 U	0.24 U	0.24 U	0.24 U	0.24 U			0.255 U
	8270C	Dibenzo(a,h)anthracene	0.0092	ca	ug/L		0.195 U		0.2 U		0.195 U	0.195 U	0.19 U	0.28 J	0.19 U	0.29 J			0.205 U
	8270C	Dibenzofuran	12	nc	ug/L		1 U		1 U		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U			1 U
	8270C	Diethyl phthalate	29199	nc	ug/L		1 U		1 U		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U			1 U
	8270C	Dimethyl phthalate	364867	nc	ug/L		1 U		1 U		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U			1 U
	8270C	Di-n-butyl phthalate	3650	nc	ug/L		2.45 U		2.5 U		2.45 U	2.45 U	2.4 U	2.4 U	2.4 U	2.4 U			2.55 U
	8270C	Di-n-octyl phthalate	1460	nc	ug/L		4.9 U		5 U		4.85 U	4.85 U	4.75 U	4.8 U	4.8 U	4.75 U			5 U
	8270C	Fluoranthene	1460	nc	ug/L		0.49 U		0.5 U		0.485 U	0.485 U	0.475 U	0.48 U	0.48 U	0.475 U			0.5 U
	8270C	Fluorene	243	nc	ug/L		0.49 U		0.5 U		0.485 U	0.485 U	0.475 U	0.48 U	0.48 U	0.475 U			0.5 U
	8270C	Hexachlorobenzene	0.042	ca	ug/L		0.245 U		0.25 U		0.245 U	0.245 U	0.24 U	0.24 U	0.24 U	0.24 U			0.255 U
	8270C	Hexachlorobutadiene	0.86	ca	ug/L		2.45 U		2.5 U		2.45 U	2.45 U	2.4 U	2.4 U	2.4 U	2.4 U			2.55 U
	8270C	Hexachlorocyclopentadiene	219	nc	ug/L		10 U		10 U		- R	9.5 U	- R	- R	- R	9.5 U			10 U
	8270C	Hexachloroethane	4.8	ca	ug/L		2.45 U		2.5 U		2.45 U	2.45 U	2.4 U	2.4 U	2.4 U	2.4 U			2.55 U
	8270C	Indeno(1,2,3-cd)pyrene	0.092	ca	ug/L		0.195 U		0.2 U		0.195 U	0.195 U	0.19 U	0.22 J	0.19 U	0.28 J			0.205 U
	8270C	Isophorone	71	ca	ug/L		1 U		1 U		0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U			1 U
	8270C	Naphthalene	6.2	nc	ug/L		0.49 U		0.5 U		0.485 U	0.485 U	0.475 U	0.48 U	0.48 U	0.475 U			0.5 U
	8270C	Nitrobenzene	3.4	nc	ug/L		0.49 U		0.5 U		0.485 U	0.485 U	0.475 U	0.48 U	0.48 U	0.475 U			0.5 U
	8270C	n-Nitroso-di-n-propylamine	0.0096	ca	ug/L		0.245 U		0.25 U		0.245 U	0.245 U	0.24 U	0.24 U	0.24 U	0.24 U			0.255 U
	8270C	n-Nitrosodiphenylamine	14	ca	ug/L		0.49 U		0.5 U		0.485 U	0.485 U	0.475 U	0.48 U	0.48 U	0.475 U			0.5 U
	8270C	Pentachlorophenol	0.56	ca	ug/L		4.9 U		5 U		4.85 U	4.85 U	4.75 U	4.8 U	4.8 U	4.75 U			5 U
	8270C	Phenanthrene	--		ug/L		0.49 U		0.5 U		0.485 U	0.485 U	0.475 U	0.48 U	0.48 U	0.475 U			0.5 U
	8270C	Phenol	10950	nc	ug/L		2.45 U		2.5 U		2.45 U	2.45 U	2.4 U	2.4 U	2.4 U	2.4 U			2.55 U
	8270C	Pyrene	182	nc	ug/L		0.49 U		0.5 U		0.485 U	0.485 U	0.475 U	0.48 U	0.48 U	0.17 J			0.5 U
Explosives	8330	1,3,5-Trinitrobenzene	1095	nc	ug/L	0.14 U	0.14 U	0.105 U	0.125 U	0.1 U	0.2 U	0.2 U	0.115 U	0.155 U	0.15 U	0.1 U	0.175 U		0.125 U
	8330	1,3-Dinitrobenzene	3.6	nc	ug/L	0.14 U	0.14 U	0.105 U	0.125 U	0.1 U	0.2 U	0.2 U	0.115 U	0.155 U	0.15 U	0.1 U	0.175 U		0.125 U
	8330	2,4,6-TNT	2.2	ca	ug/L	0.175 U	0.175 U	0.135 U	0.155 U	0.125 U	0.25 U	0.25 U	0.145 U	0.195 U	0.19 U	0.125 U	0.22 U		0.155 U
	8330	2,4-Dinitrotoluene	73	nc	ug/L	0.25 U	0.25 U	0.19 U	0.22 U	0.18 U	0.36 U	0.355 U	0.21 U	0.28 U	0.27 U	0.18 U	0.315 U		0.225 U
	8330	2,6-Dinitrotoluene	36	nc	ug/L	0.295 U	0.3 U	0.23 U	0.265 U	0.215 U	0.43 U	0.425 U	0.25 U	0.335 U	0.32 U	0.215 U	0.375 U		0.27 U
	8330	2-Amino-4,6-Dinitrotoluene	--		ug/L	0.25 U	0.25 U	0.19 U	0.22 U	0.18 U	0.36 U	0.355 U	0.21 U	0.28 U	0.27 U	0.18 U	0.315 U		0.225 U
	8330	2-Nitrotoluene	0.049	ca	ug/L	0.215 U	0.215 U	0.165 U	0.19 U	0.155 U	0.31 U	0.305 U	0.18 U	0.245 U	0.23 U	0.155 U	0.27 U		0.195 U
	8330	3-Nitrotoluene	122	nc	ug/L	0.215 U	0.215 U	0.165 U	0.19 U	0.155 U	0.31 U	0.305 U	0.18 U	0.245 U	0.23 U	0.155 U	0.27 U		0.195 U
	8330	4-Amino-2,6-Dinitrotoluene	--		ug/L	0.23 U	0.23 U	0.175 U	0.205 U	0.165 U	0.33 U	0.325 U	0.195 U	0.26 U	0.25 U	0.165 U	0.29 U		0.205 U
	8330	4-Nitrotoluene	0.66	ca	ug/L	0.215 U	0.215 U	0.165 U	0.19 U	0.155 U	0.31 U	0.305 U	0.18 U	0.245 U	0.23 U	0.155 U	0.27 U		0.195 U
	8330	HMX	1825	nc	ug/L	0.215 U	0.215 U	0.165 U	0.19 U	0.155 U	0.31 U	0.305 U	0.18 U	0.245 U	0.23 U	0.155 U	0.27 U		0.195 U
	8330	Nitrobenzene	3.4	nc	ug/L	0.11 U	0.11 U	0.085 U	0.1 U	0.08 U	0.16 U	0.16 U	0.095 U	0.125 U	0.12 U	0.08 U	0.14 U		0.1 U
	8330	RDX	0.61	ca	ug/L	0.14 U	0.14 U	0.105 U	0.125 U	0.1 U	0.2 U	0.2 U	0.115 U	0.155 U	0.15 U	0.1 U	0.175 U		0.125 U
	8330	Tetryl	365	nc	ug/L	0.55 U	0.55 U	0.415 U	0.48 U	0.39 U	0.8 U	0.75 U	0.455 U	0.6 U	0.6 U	0.39 U	0.7 U		0.49 U
Propellants	353.2 Modified	Nitrocellulose	--		ug/L						250 U		250 U	250 U					70 UJ
	8332	Nitroglycerine	4.8	ca	ug/L						1 U		0.6 U	0.8 U					0.6 U
	SW8330 Modified	Nitroguanidine	3650	nc	ug/L						10 U		10 U	10 U					10 U

**Table EB-1**  
**Equipment Blank Summary Table**  
**RVAAP 14 AOC Characterization**  
**Ravenna Army Ammunition Plant, Ravenna, Ohio**

Group	Method	Parameter	Region 9 PRG (Tap Water)	Units	Sample Date:	ASYss-026M-ER	ASYsw-008-ER	ATAss-002M-ER	L10mw-006-ER	L10sd-005-ER	L10ss-027M-ER	LL5mw-004-ER	LL5ss-005M-ER	LL7ss-023M-ER	LL8mw-005-ER	LL8mw-006-ER	LL8sd-006M-ER	LL8ss-019-ER	LNWmw-024-ER	
					11/03/2004	12/08/2004	11/08/2004	01/14/2005	12/14/2004	11/18/2004	01/04/2005	11/18/2004	11/09/2004	02/02/2005	01/21/2005	11/08/2004	11/18/2004	01/12/2005		

Notes:  
blank cells indicate that the analysis was not performed  
PRG - preliminary remediation goals  
ug/l - means micrograms per Liter (parts per billion - ppb)  
nc - non-cancer basis  
ca - cancer basis  
pbk - based on PBK modeling  
mcl - based on CWA maximum contaminant level  
max - ceiling limit  
sat - soil saturation  
UC/Filtered – GW sample was filtered for metals and taken from an unconsolidated MW  
C/Filtered – GW sample was filtered for metals and taken from a consolidated (bedrock) MW  
[n] - nutrient  
U - analyte not detected  
J - estimated value  
R - result rejected during ADR validation  
If Result = or > PRG, then the value is presented with a bold style  
If Result < PRG & Background, then the value is presented with a normal style



## Appendix Y

### Table TB-1 – Trip Blank Summary Table

General

**Table TB-1**  
**Trip Blank Summary Table**  
**RVAAP 14 AOC Characterization**  
**Ravenna Army Ammunition Plant, Ravenna, Ohio**

					TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	Trip Blank	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	
Sample Date:					01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005
Group	Method	Parameter	Region 9 PRG (Tap Water)	Units																
	LabAnalysisRefMe	AnalyteName	PRG	basis																
Metals	6010B	Aluminum	36499	nc	ug/L															
	6010B	Barium	2555	nc	ug/L															
	6010B	Beryllium	73	nc	ug/L															
	6010B	Cadmium	18	nc	ug/L															
	6010B	Calcium	--[n]		ug/L															
	6010B	Chromium	109	nc	ug/L															
	6010B	Cobalt	730	nc	ug/L															
	6010B	Copper	1460	nc	ug/L															
	6010B	Iron	10950	nc	ug/L															
	6010B	Magnesium	--[n]		ug/L															
	6010B	Manganese	876	nc	ug/L															
	6010B	Nickel	730	nc	ug/L															
	6010B	Potassium	--[n]		ug/L															
	6010B	Selenium	182	nc	ug/L															
	6010B	Silver	182	nc	ug/L															
	6010B	Sodium	--[n]		ug/L															
	6010B	Vanadium	36	nc	ug/L															
	6010B	Zinc	10950	nc	ug/L															
	7041	Antimony	15	nc	ug/L															
	7060A	Arsenic	0.045	ca	ug/L															
	7196A	Hexavalent Chromium	109	nc	ug/L															
	7421	Lead	15	mcl	ug/L															
7470A	Mercury	11	nc	ug/L																
7841	Thallium	2.4	nc	ug/L																
Pesticides	8081A	4,4'-DDD	0.28	ca	ug/L															
	8081A	4,4'-DDE	0.20	ca	ug/L															
	8081A	4,4'-DDT	0.20	ca	ug/L															
	8081A	Aldrin	0.0040	ca	ug/L															
	8081A	alpha-BHC	0.011	nc	ug/L															
	8081A	alpha-Chlordane	0.19	ca	ug/L															
	8081A	beta-BHC	0.037	ca	ug/L															
	8081A	delta-BHC	--		ug/L															
	8081A	Dieldrin	0.0042	ca	ug/L															
	8081A	Endosulfan I	220	nc	ug/L															
	8081A	Endosulfan II	220	nc	ug/L															
	8081A	Endosulfan sulfate	220	nc	ug/L															
	8081A	Endrin	11	nc	ug/L															
	8081A	Endrin aldehyde	--		ug/L															
	8081A	Endrin ketone	--		ug/L															
	8081A	gamma-BHC	0.052	ca	ug/L															
	8081A	gamma-Chlordane	0.19	ca	ug/L															
	8081A	Heptachlor	0.015	ca	ug/L															
	8081A	Heptachlor epoxide	0.0074	ca	ug/L															

**Table TB-1**  
**Trip Blank Summary Table**  
**RVAAP 14 AOC Characterization**  
**Ravenna Army Ammunition Plant, Ravenna, Ohio**

					TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK		
Sample Date:					01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	
Group	Method	Parameter	Region 9 PRG (Tap Water)	Units																	
	8081A	Methoxychlor	182	nc	ug/L																
	8081A	Toxaphene	0.061	ca	ug/L																
PCBs	8082	Aroclor 1016	0.96	ca	ug/L																
	8082	Aroclor 1221	0.034	ca	ug/L																
	8082	Aroclor 1232	0.034	ca	ug/L																
	8082	Aroclor 1242	0.034	ca	ug/L																
	8082	Aroclor 1248	0.034	ca	ug/L																
	8082	Aroclor 1254	0.034	ca	ug/L																
	8082	Aroclor 1260	0.034	ca	ug/L																
VOCs	8260B	1,1,1-Trichloroethane	3172	nc	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
	8260B	1,1,2,2-Tetrachloroethane	0.055	ca	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
	8260B	1,1,2-Trichloroethane	0.20	ca	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
	8260B	1,1-Dichloroethane	811	nc	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	8260B	1,1-Dichloroethene	339	nc	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	8260B	1,2-Dibromoethane	0.0056	ca	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	8260B	1,2-Dichloroethane	0.12	ca	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	8260B	1,2-Dichloroethene (total)	120	nc	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	8260B	1,2-Dichloropropane	0.16	ca	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	8260B	2-Butanone	6968	nc	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	8260B	2-Hexanone	2000	nc	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	8260B	4-Methyl-2-pentanone	1993	nc	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	8260B	Acetone	5475	nc	ug/L	8.8 J	8.8 J	8.8 J	8.8 J	8.8 J	8.8 J	8.8 J	8.8 J	8.8 J	8.8 J	8.8 J	8.8 J	8.8 J	8.8 J	8.8 J	8.8 J
	8260B	Benzene	0.35	ca	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	8260B	Bromochloromethane	--		ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	8260B	Bromodichloromethane	0.18	ca	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	8260B	Bromoform	8.5	ca	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	8260B	Bromomethane	8.7	nc	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	8260B	Carbon disulfide	1043	nc	ug/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
	8260B	Carbon tetrachloride	0.17	ca	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	8260B	Chlorobenzene	106	nc	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	8260B	Chloroethane	4.6	ca	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	8260B	Chloroform	0.17	ca	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	8260B	Chloromethane	158	nc	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	8260B	cis-1,2-Dichloroethene	61	nc	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	8260B	cis-1,3-Dichloropropene	0.40	ca	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	8260B	Dibromochloromethane	0.13	ca	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	8260B	Ethylbenzene	1340	nc	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	8260B	m&p-Xylenes	206	nc	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	8260B	Methylene chloride	4.3	ca	ug/L	1.3 J	1.3 J	1.3 J	1.3 J	1.3 J	1.3 J	1.3 J	1.3 J	1.3 J	1.3 J	1.3 J	1.3 J	1.3 J	1.3 J	1.3 J	1.3 J
	8260B	o-Xylene	206	nc	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	8260B	Styrene	1641	nc	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	8260B	Tetrachloroethene	0.10	ca	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
8260B	Toluene	723	nc	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
8260B	Total Xylenes	206	nc	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	

**Table TB-1**  
**Trip Blank Summary Table**  
**RVAAP 14 AOC Characterization**  
**Ravenna Army Ammunition Plant, Ravenna, Ohio**

					TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	Trip Blank	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	
Sample Date:					01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005
Group	Method	Parameter	Region 9 PRG (Tap Water)	Units																	
	8260B	trans-1,2-Dichloroethene	122	nc	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	8260B	trans-1,3-Dichloropropene	0.40	ca	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	8260B	Trichloroethene	0.028	ca	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	8260B	Vinyl chloride	0.020	ca	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
SVOCs	8270C	1,2,4-Trichlorobenzene	7.2	nc	ug/L																
	8270C	1,2-Dichlorobenzene	370	nc	ug/L																
	8270C	1,3-Dichlorobenzene	182	nc	ug/L																
	8270C	1,4-Dichlorobenzene	0.50	ca	ug/L																
	8270C	2,2-oxybis (1-chloropropane)	0.27	ca	ug/L																
	8270C	2,4,5-Trichlorophenol	3650	nc	ug/L																
	8270C	2,4,6-Trichlorophenol	3.6	nc	ug/L																
	8270C	2,4-Dichlorophenol	109	nc	ug/L																
	8270C	2,4-Dimethylphenol	730	nc	ug/L																
	8270C	2,4-Dinitrophenol	73	nc	ug/L																
	8270C	2,4-Dinitrotoluene	73	nc	ug/L																
	8270C	2,6-Dinitrotoluene	36	nc	ug/L																
	8270C	2-Chloronaphthalene	487	nc	ug/L																
	8270C	2-Chlorophenol	30	nc	ug/L																
	8270C	2-Methylnaphthalene	--		ug/L																
	8270C	2-Methylphenol	1825	nc	ug/L																
	8270C	2-Nitroaniline	109	nc	ug/L																
	8270C	2-Nitrophenol	--		ug/L																
	8270C	3,3'-Dichlorobenzidine	0.15	ca	ug/L																
	8270C	3-Nitroaniline	3.2	ca	ug/L																
	8270C	4,6-Dinitro-2-methylphenol	3.6	nc	ug/L																
	8270C	4-Bromophenyl phenyl ether	--		ug/L																
	8270C	4-Chloro-3-methylphenol	--		ug/L																
	8270C	4-Chloroaniline	146	nc	ug/L																
	8270C	4-Chlorophenyl phenyl ether	--		ug/L																
	8270C	4-Methylphenol	182	nc	ug/L																
	8270C	4-Nitroaniline	3.2	ca	ug/L																
	8270C	4-Nitrophenol	--		ug/L																
	8270C	Acenaphthene	365	nc	ug/L																
	8270C	Acenaphthylene	--		ug/L																
	8270C	Anthracene	1825	nc	ug/L																
	8270C	Benzo(a)anthracene	0.092	ca	ug/L																
8270C	Benzo(a)pyrene	0.0092	ca	ug/L																	
8270C	Benzo(b)fluoranthene	0.092	ca	ug/L																	
8270C	Benzo(g,h,i)perylene	--		ug/L																	
8270C	Benzo(k)fluoranthene	0.92	ca	ug/L																	
8270C	Benzoic acid	145979	nc	ug/L																	
8270C	Benzyl alcohol	10950	nc	ug/L																	
8270C	Bis(2-chloroethoxy)methane	--		ug/L																	
8270C	Bis(2-chloroethyl) ether	0.010	ca	ug/L																	



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					TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	Trip Blank	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	
Sample Date:					01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005
Group	Method	Parameter	Region 9 PRG (Tap Water)	Units																
	8270C	Bis(2-ethylhexyl) phthalate	4.8	ca	ug/L															
	8270C	Butylbenzyl phthalate	7300	nc	ug/L															
	8270C	Carbazole	3.4	ca	ug/L															
	8270C	Chrysene	9.2	ca	ug/L															
	8270C	Dibenzo(a,h)anthracene	0.0092	ca	ug/L															
	8270C	Dibenzofuran	12	nc	ug/L															
	8270C	Diethyl phthalate	29199	nc	ug/L															
	8270C	Dimethyl phthalate	364867	nc	ug/L															
	8270C	Di-n-butyl phthalate	3650	nc	ug/L															
	8270C	Di-n-octyl phthalate	1460	nc	ug/L															
	8270C	Fluoranthene	1460	nc	ug/L															
	8270C	Fluorene	243	nc	ug/L															
	8270C	Hexachlorobenzene	0.042	ca	ug/L															
	8270C	Hexachlorobutadiene	0.86	ca	ug/L															
	8270C	Hexachlorocyclopentadiene	219	nc	ug/L															
	8270C	Hexachloroethane	4.8	ca	ug/L															
	8270C	Indeno(1,2,3-cd)pyrene	0.092	ca	ug/L															
	8270C	Isophorone	71	ca	ug/L															
	8270C	Naphthalene	6.2	nc	ug/L															
	8270C	Nitrobenzene	3.4	nc	ug/L															
	8270C	n-Nitroso-di-n-propylamine	0.0096	ca	ug/L															
	8270C	n-Nitrosodiphenylamine	14	ca	ug/L															
	8270C	Pentachlorophenol	0.56	ca	ug/L															
	8270C	Phenanthrene	--		ug/L															
	8270C	Phenol	10950	nc	ug/L															
	8270C	Pyrene	182	nc	ug/L															
Explosives	8330	1,3,5-Trinitrobenzene	1095	nc	ug/L															
	8330	1,3-Dinitrobenzene	3.6	nc	ug/L															
	8330	2,4,6-TNT	2.2	ca	ug/L															
	8330	2,4-Dinitrotoluene	73	nc	ug/L															
	8330	2,6-Dinitrotoluene	36	nc	ug/L															
	8330	2-Amino-4,6-Dinitrotoluene	--		ug/L															
	8330	2-Nitrotoluene	0.049	ca	ug/L															
	8330	3-Nitrotoluene	122	nc	ug/L															
	8330	4-Amino-2,6-Dinitrotoluene	--		ug/L															
	8330	4-Nitrotoluene	0.66	ca	ug/L															
	8330	HMX	1825	nc	ug/L															
	8330	Nitrobenzene	3.4	nc	ug/L															
	8330	RDX	0.61	ca	ug/L															
	8330	Tetryl	365	nc	ug/L															
Propellants	353.2 Modified	Nitrocellulose	--		ug/L															
	8332	Nitroglycerine	4.8	ca	ug/L															
	SW8330 Modified	Nitroguanidine	3650	nc	ug/L															

**Table TB-1**  
**Trip Blank Summary Table**  
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					TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	Trip Blank	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
					Sample Date:	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005
Group	Method	Parameter	Region 9 PRG (Tap Water)	Units														

Notes:  
blank cells indicate that the analysis was not performed  
PRG - preliminary remediation goals  
ug/l - means micrograms per Liter (parts per billion - ppb)  
nc - non-cancer basis  
ca - cancer basis  
pbk - based on PBK modeling  
mcl - based on CWA maximum contaminant level  
max - ceiling limit  
sat - soil saturation  
UC/Filtered – GW sample was filtered for metals and taken from an unconsolidated MW  
C/Filtered – GW sample was filtered for metals and taken from a consolidated (bedrock) MW  
[n] - nutrient  
U - analyte not detected  
J - estimated value  
R - result rejected during ADR validation  
If Result = or > PRG, then the value is presented with a bold style  
If Result < PRG & Background, then the value is presented with a normal style.

**Table TB-1**  
**Trip Blank Summary Table**  
**RVAAP 14 AOC Characterization**  
**Ravenna Army Ammunition Plant, Ravenna, Ohio**

					TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
					Sample Date:				
					01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005
Group	Method	Parameter	Region 9 PRG (Tap Water)	Units					
	LabAnalysisRefMe	AnalyteName	PRG	basis					
Metals	6010B	Aluminum	36499	nc	ug/L				
	6010B	Barium	2555	nc	ug/L				
	6010B	Beryllium	73	nc	ug/L				
	6010B	Cadmium	18	nc	ug/L				
	6010B	Calcium	--[n]		ug/L				
	6010B	Chromium	109	nc	ug/L				
	6010B	Cobalt	730	nc	ug/L				
	6010B	Copper	1460	nc	ug/L				
	6010B	Iron	10950	nc	ug/L				
	6010B	Magnesium	--[n]		ug/L				
	6010B	Manganese	876	nc	ug/L				
	6010B	Nickel	730	nc	ug/L				
	6010B	Potassium	--[n]		ug/L				
	6010B	Selenium	182	nc	ug/L				
	6010B	Silver	182	nc	ug/L				
	6010B	Sodium	--[n]		ug/L				
	6010B	Vanadium	36	nc	ug/L				
	6010B	Zinc	10950	nc	ug/L				
	7041	Antimony	15	nc	ug/L				
	7060A	Arsenic	0.045	ca	ug/L				
	7196A	Hexavalent Chromium	109	nc	ug/L				
	7421	Lead	15	mcl	ug/L				
	7470A	Mercury	11	nc	ug/L				
	7841	Thallium	2.4	nc	ug/L				
Pesticides	8081A	4,4'-DDD	0.28	ca	ug/L				
	8081A	4,4'-DDE	0.20	ca	ug/L				
	8081A	4,4'-DDT	0.20	ca	ug/L				
	8081A	Aldrin	0.0040	ca	ug/L				
	8081A	alpha-BHC	0.011	nc	ug/L				
	8081A	alpha-Chlordane	0.19	ca	ug/L				
	8081A	beta-BHC	0.037	ca	ug/L				
	8081A	delta-BHC	--		ug/L				
	8081A	Dieldrin	0.0042	ca	ug/L				
	8081A	Endosulfan I	220	nc	ug/L				
	8081A	Endosulfan II	220	nc	ug/L				
	8081A	Endosulfan sulfate	220	nc	ug/L				
	8081A	Endrin	11	nc	ug/L				
	8081A	Endrin aldehyde	--		ug/L				
	8081A	Endrin ketone	--		ug/L				
	8081A	gamma-BHC	0.052	ca	ug/L				
	8081A	gamma-Chlordane	0.19	ca	ug/L				
	8081A	Heptachlor	0.015	ca	ug/L				
	8081A	Heptachlor epoxide	0.0074	ca	ug/L				

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**RVAAP 14 AOC Characterization**  
**Ravenna Army Ammunition Plant, Ravenna, Ohio**

					TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	
					Sample Date:	01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005
Group	Method	Parameter	Region 9 PRG (Tap Water)	Units						
	8081A	Methoxychlor	182 nc	ug/L						
	8081A	Toxaphene	0.061 ca	ug/L						
PCBs	8082	Aroclor 1016	0.96 ca	ug/L						
	8082	Aroclor 1221	0.034 ca	ug/L						
	8082	Aroclor 1232	0.034 ca	ug/L						
	8082	Aroclor 1242	0.034 ca	ug/L						
	8082	Aroclor 1248	0.034 ca	ug/L						
	8082	Aroclor 1254	0.034 ca	ug/L						
	8082	Aroclor 1260	0.034 ca	ug/L						
VOCs	8260B	1,1,1-Trichloroethane	3172 nc	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
	8260B	1,1,2,2-Tetrachloroethane	0.055 ca	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
	8260B	1,1,2-Trichloroethane	0.20 ca	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
	8260B	1,1-Dichloroethane	811 nc	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
	8260B	1,1-Dichloroethene	339 nc	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
	8260B	1,2-Dibromoethane	0.0056 ca	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
	8260B	1,2-Dichloroethane	0.12 ca	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
	8260B	1,2-Dichloroethene (total)	120 nc	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
	8260B	1,2-Dichloropropane	0.16 ca	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
	8260B	2-Butanone	6968 nc	ug/L	5 U	5 U	5 U	5 U	5 U	
	8260B	2-Hexanone	2000 nc	ug/L	5 U	5 U	5 U	5 U	5 U	
	8260B	4-Methyl-2-pentanone	1993 nc	ug/L	5 U	5 U	5 U	5 U	5 U	
	8260B	Acetone	5475 nc	ug/L	8.8 J	8.8 J	8.8 J	8.8 J	8.8 J	
	8260B	Benzene	0.35 ca	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
	8260B	Bromochloromethane	--	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
	8260B	Bromodichloromethane	0.18 ca	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
	8260B	Bromoform	8.5 ca	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
	8260B	Bromomethane	8.7 nc	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
	8260B	Carbon disulfide	1043 nc	ug/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	
	8260B	Carbon tetrachloride	0.17 ca	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
	8260B	Chlorobenzene	106 nc	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
	8260B	Chloroethane	4.6 ca	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
	8260B	Chloroform	0.17 ca	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
	8260B	Chloromethane	158 nc	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
	8260B	cis-1,2-Dichloroethene	61 nc	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
	8260B	cis-1,3-Dichloropropene	0.40 ca	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
	8260B	Dibromochloromethane	0.13 ca	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
	8260B	Ethylbenzene	1340 nc	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
	8260B	m&p-Xylenes	206 nc	ug/L	1 U	1 U	1 U	1 U	1 U	
	8260B	Methylene chloride	4.3 ca	ug/L	1.3 J	1.3 J	1.3 J	1.3 J	1.3 J	
	8260B	o-Xylene	206 nc	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
	8260B	Styrene	1641 nc	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
8260B	Tetrachloroethene	0.10 ca	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U		
8260B	Toluene	723 nc	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U		
8260B	Total Xylenes	206 nc	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U		

**Table TB-1**  
**Trip Blank Summary Table**  
**RVAAP 14 AOC Characterization**  
**Ravenna Army Ammunition Plant, Ravenna, Ohio**

					TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	
					Sample Date:					
					01/03/2005	01/03/2005	01/03/2005	01/03/2005	01/03/2005	
Group	Method	Parameter	Region 9 PRG (Tap Water)	Units						
	8260B	trans-1,2-Dichloroethene	122	nc	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	8260B	trans-1,3-Dichloropropene	0.40	ca	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	8260B	Trichloroethene	0.028	ca	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	8260B	Vinyl chloride	0.020	ca	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
SVOCs	8270C	1,2,4-Trichlorobenzene	7.2	nc	ug/L					
	8270C	1,2-Dichlorobenzene	370	nc	ug/L					
	8270C	1,3-Dichlorobenzene	182	nc	ug/L					
	8270C	1,4-Dichlorobenzene	0.50	ca	ug/L					
	8270C	2,2-oxybis (1-chloropropane)	0.27	ca	ug/L					
	8270C	2,4,5-Trichlorophenol	3650	nc	ug/L					
	8270C	2,4,6-Trichlorophenol	3.6	nc	ug/L					
	8270C	2,4-Dichlorophenol	109	nc	ug/L					
	8270C	2,4-Dimethylphenol	730	nc	ug/L					
	8270C	2,4-Dinitrophenol	73	nc	ug/L					
	8270C	2,4-Dinitrotoluene	73	nc	ug/L					
	8270C	2,6-Dinitrotoluene	36	nc	ug/L					
	8270C	2-Chloronaphthalene	487	nc	ug/L					
	8270C	2-Chlorophenol	30	nc	ug/L					
	8270C	2-Methylnaphthalene	--		ug/L					
	8270C	2-Methylphenol	1825	nc	ug/L					
	8270C	2-Nitroaniline	109	nc	ug/L					
	8270C	2-Nitrophenol	--		ug/L					
	8270C	3,3'-Dichlorobenzidine	0.15	ca	ug/L					
	8270C	3-Nitroaniline	3.2	ca	ug/L					
	8270C	4,6-Dinitro-2-methylphenol	3.6	nc	ug/L					
	8270C	4-Bromophenyl phenyl ether	--		ug/L					
	8270C	4-Chloro-3-methylphenol	--		ug/L					
	8270C	4-Chloroaniline	146	nc	ug/L					
	8270C	4-Chlorophenyl phenyl ether	--		ug/L					
	8270C	4-Methylphenol	182	nc	ug/L					
	8270C	4-Nitroaniline	3.2	ca	ug/L					
	8270C	4-Nitrophenol	--		ug/L					
	8270C	Acenaphthene	365	nc	ug/L					
	8270C	Acenaphthylene	--		ug/L					
	8270C	Anthracene	1825	nc	ug/L					
	8270C	Benzo(a)anthracene	0.092	ca	ug/L					
	8270C	Benzo(a)pyrene	0.0092	ca	ug/L					
	8270C	Benzo(b)fluoranthene	0.092	ca	ug/L					
	8270C	Benzo(g,h,i)perylene	--		ug/L					
	8270C	Benzo(k)fluoranthene	0.92	ca	ug/L					
	8270C	Benzoic acid	145979	nc	ug/L					
	8270C	Benzyl alcohol	10950	nc	ug/L					
	8270C	Bis(2-chloroethoxy)methane	--		ug/L					
	8270C	Bis(2-chloroethyl) ether	0.010	ca	ug/L					

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**Trip Blank Summary Table**  
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**Ravenna Army Ammunition Plant, Ravenna, Ohio**

					TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	
					Sample Date: 01/03/2005					
Group	Method	Parameter	Region 9 PRG (Tap Water)	Units						
	8270C	Bis(2-ethylhexyl) phthalate	4.8	ca	ug/L					
	8270C	Butylbenzyl phthalate	7300	nc	ug/L					
	8270C	Carbazole	3.4	ca	ug/L					
	8270C	Chrysene	9.2	ca	ug/L					
	8270C	Dibenzo(a,h)anthracene	0.0092	ca	ug/L					
	8270C	Dibenzofuran	12	nc	ug/L					
	8270C	Diethyl phthalate	29199	nc	ug/L					
	8270C	Dimethyl phthalate	364867	nc	ug/L					
	8270C	Di-n-butyl phthalate	3650	nc	ug/L					
	8270C	Di-n-octyl phthalate	1460	nc	ug/L					
	8270C	Fluoranthene	1460	nc	ug/L					
	8270C	Fluorene	243	nc	ug/L					
	8270C	Hexachlorobenzene	0.042	ca	ug/L					
	8270C	Hexachlorobutadiene	0.86	ca	ug/L					
	8270C	Hexachlorocyclopentadiene	219	nc	ug/L					
	8270C	Hexachloroethane	4.8	ca	ug/L					
	8270C	Indeno(1,2,3-cd)pyrene	0.092	ca	ug/L					
	8270C	Isophorone	71	ca	ug/L					
	8270C	Naphthalene	6.2	nc	ug/L					
	8270C	Nitrobenzene	3.4	nc	ug/L					
	8270C	n-Nitroso-di-n-propylamine	0.0096	ca	ug/L					
	8270C	n-Nitrosodiphenylamine	14	ca	ug/L					
	8270C	Pentachlorophenol	0.56	ca	ug/L					
	8270C	Phenanthrene	--		ug/L					
	8270C	Phenol	10950	nc	ug/L					
	8270C	Pyrene	182	nc	ug/L					
Explosives	8330	1,3,5-Trinitrobenzene	1095	nc	ug/L					
	8330	1,3-Dinitrobenzene	3.6	nc	ug/L					
	8330	2,4,6-TNT	2.2	ca	ug/L					
	8330	2,4-Dinitrotoluene	73	nc	ug/L					
	8330	2,6-Dinitrotoluene	36	nc	ug/L					
	8330	2-Amino-4,6-Dinitrotoluene	--		ug/L					
	8330	2-Nitrotoluene	0.049	ca	ug/L					
	8330	3-Nitrotoluene	122	nc	ug/L					
	8330	4-Amino-2,6-Dinitrotoluene	--		ug/L					
	8330	4-Nitrotoluene	0.66	ca	ug/L					
	8330	HMX	1825	nc	ug/L					
	8330	Nitrobenzene	3.4	nc	ug/L					
	8330	RDX	0.61	ca	ug/L					
	8330	Tetryl	365	nc	ug/L					
Propellants	353.2 Modified	Nitrocellulose	--		ug/L					
	8332	Nitroglycerine	4.8	ca	ug/L					
	SW8330 Modified	Nitroguanidine	3650	nc	ug/L					

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**Trip Blank Summary Table**  
**RVAAP 14 AOC Characterization**  
**Ravenna Army Ammunition Plant, Ravenna, Ohio**

					TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
					Sample Date:	01/03/2005	01/03/2005	01/03/2005	01/03/2005
Group	Method	Parameter	Region 9 PRG (Tap Water)	Units					

Notes:  
blank cells indicate that the analysis was not performed  
PRG - preliminary remediation goals  
ug/l - means micrograms per Liter (parts per billion - ppb)  
nc - non-cancer basis  
ca - cancer basis  
pbk - based on PBK modeling  
mcl - based on CWA maximum contaminant level  
max - ceiling limit  
sat - soil saturation  
UC/Filtered – GW sample was filtered for metals and taken from an unconsolidated MW  
C/Filtered – GW sample was filtered for metals and taken from a consolidated (bedrock) MW  
[n] - nutrient  
U - analyte not detected  
J - estimated value  
R - result rejected during ADR validation  
If Result = or > PRG, then the value is presented with a bold style  
If Result < PRG & Background, then the value is presented with a normal style