TELEPHONE (661) 410-7500 FAX (661) 410-7506

VALLEY WATER MANAGEMENT COMPANY

7500 MEANY AVE.
BAKERSFIELD, CALIFORNIA 93308

June 15, 2015

Mr. Ronald Holcomb
Central Valley Regional Water Quality Control Board
1685 E Street
Fresno, CA 93706

Dear Mr. Holcomb:

Valley Water Management Company (VWMC) has enclosed with this letter technical report a summary table presenting analytical data as required by CVRWQCB's order (Order) under the California Water Code Directive Pursuant to Section 13267, dated April 1, 2015 and received by VWMC on April 6, 2015.

Produced water in the ponds at our facilities listed in Appendix A of the Order was sampled and analyzed by Zalco Laboratories, Inc. in accordance with the water quality analysis and reporting requirements outlined in Appendix B of the Order. VWMC staff observed the sampling at each facility and Zalco's staff performed the sampling in accordance with the required practices. In instances where a pond at one of VWMC's facilities was determined to be dry and/or permanently out of service, Zalco verified this and issued a report on the attempted sampling event. In addition, samples collected in March 2015, prior to the Order, by Precision Analytical and processed by Zalco are included in the summary table and on the enclosed location maps.

Enclosed with this letter technical report and submitted electronically by VWMC, you will find a summary table providing the analytical data as well as sample dates, facility names, locations and other available information as required by the Order. In addition, VWMC has enclosed simple facility location maps with sample locations shown.

Any questions regarding this submittal may be directed to me at (661) 410-7500, czimmerman@vwwater.com, or at the address in this letterhead.

Sincerely,

Christine Zimmerman

Christine Zimmerman
Regulatory Implementation & Compliance
Valley Water Management Company

Google earth

feet 1000

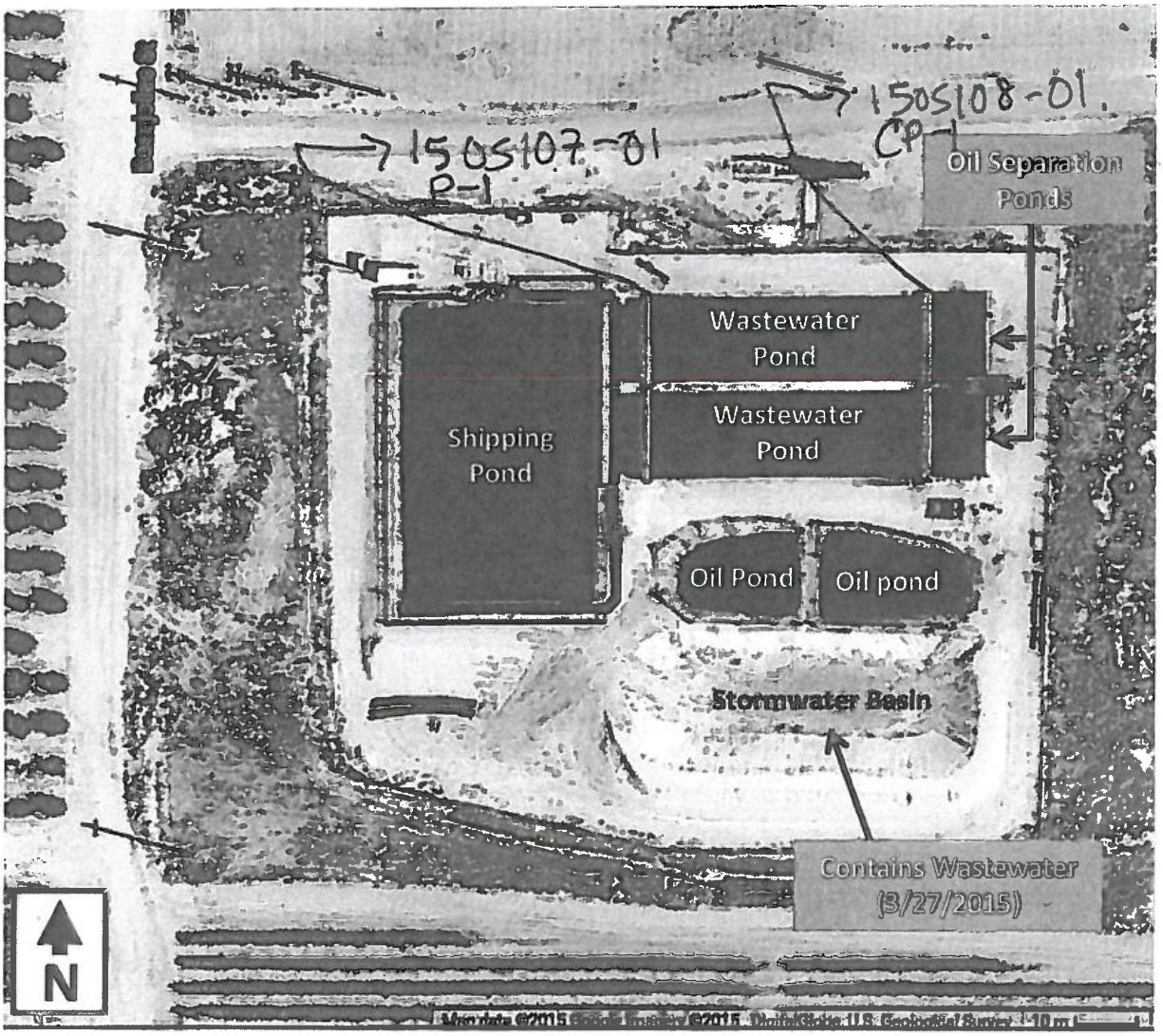
meters 500

Kern Front No. 2.

1505110-01
CP-1

1505112-01
P-1

1505111-01
CP-2

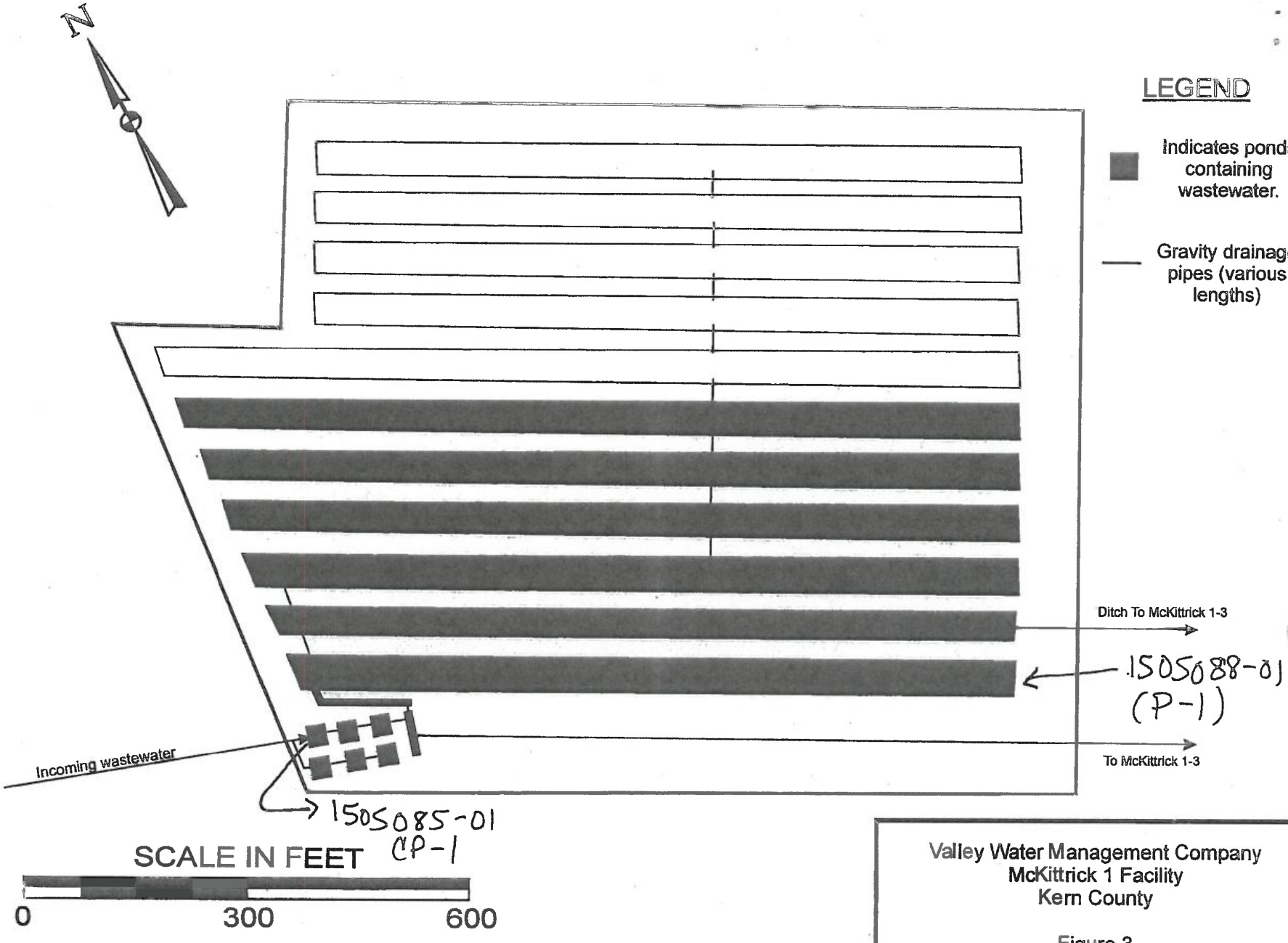


Attachment 1: Fee 34 C-Plant Facility

Map by ZJJ 04/10/2015

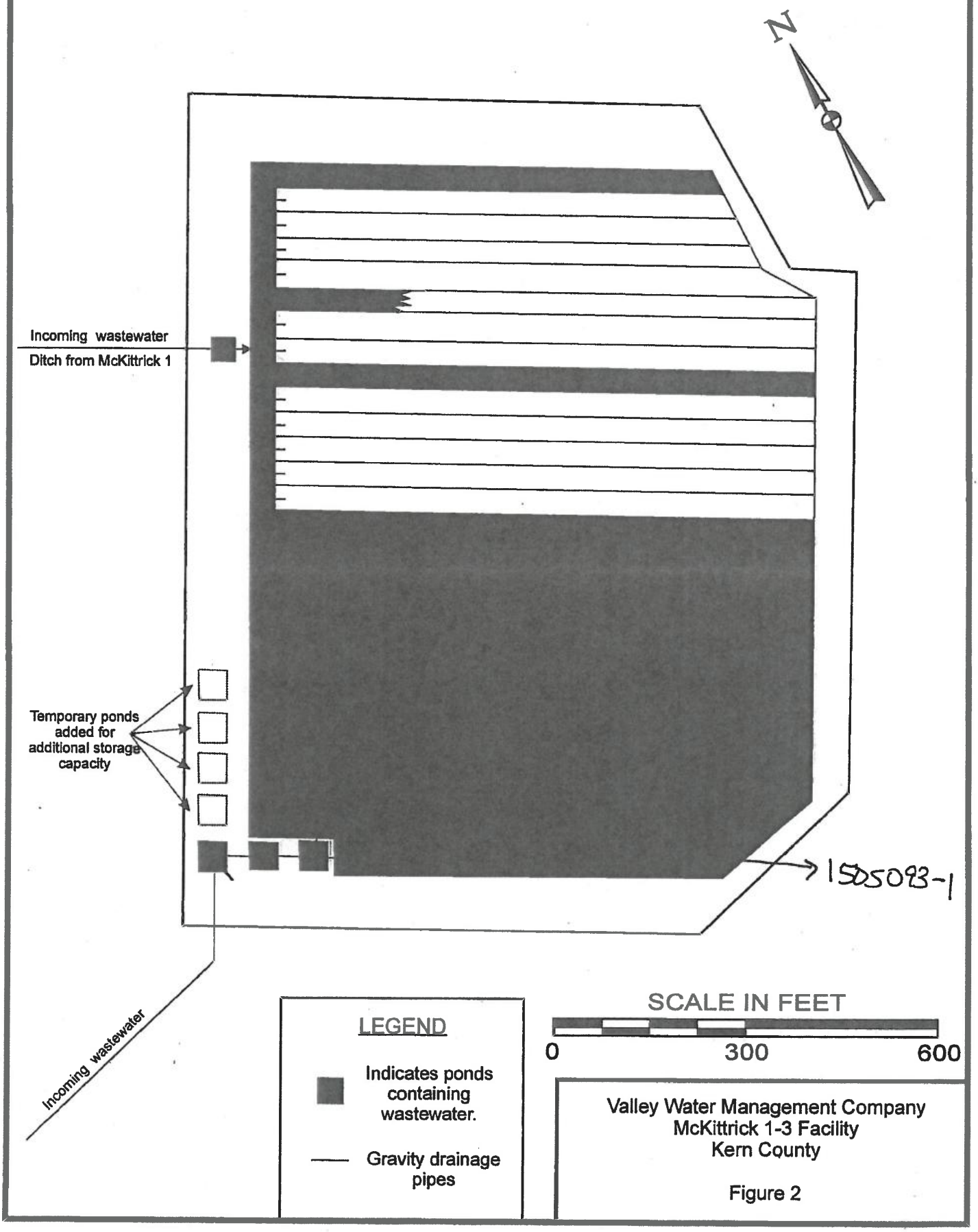
Attachment 1: Racetrack Hill Facility

Map by ZJJ 04/10/2015



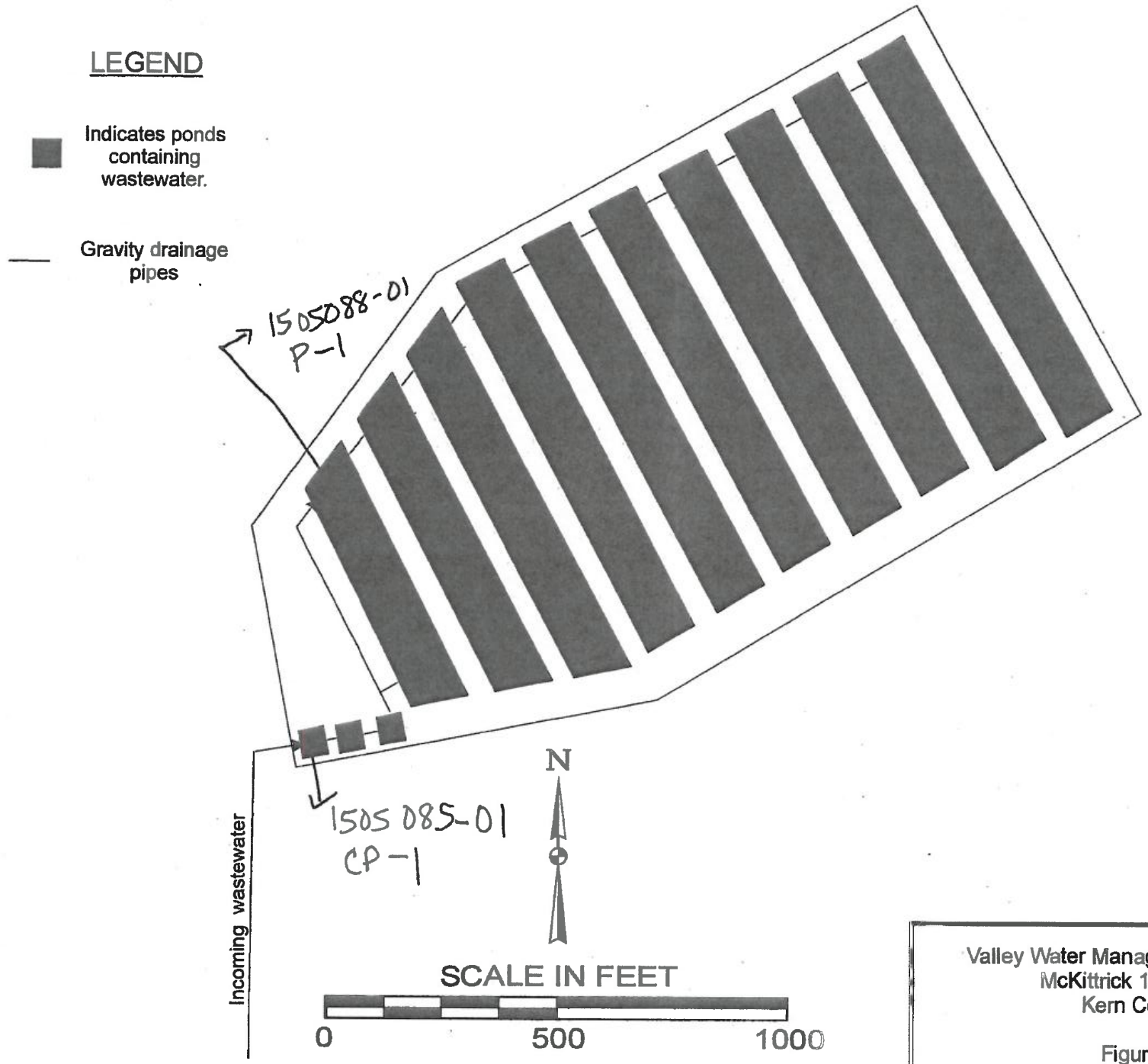
Valley Water Management Company
McKittrick 1 Facility
Kern County

Figure 3



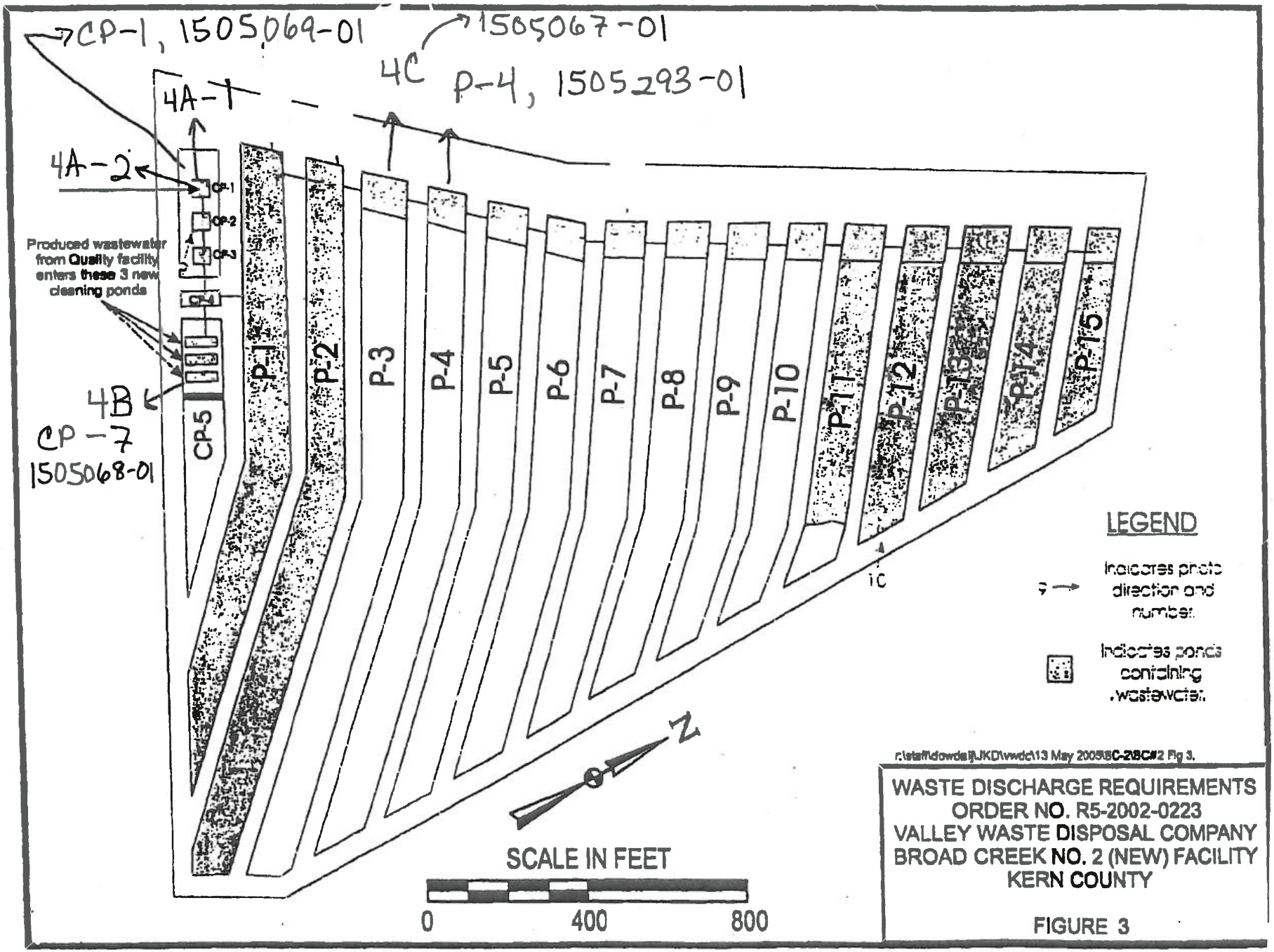
Valley Water Management Company
McKittrick 1-3 Facility
Kern County

Figure 2



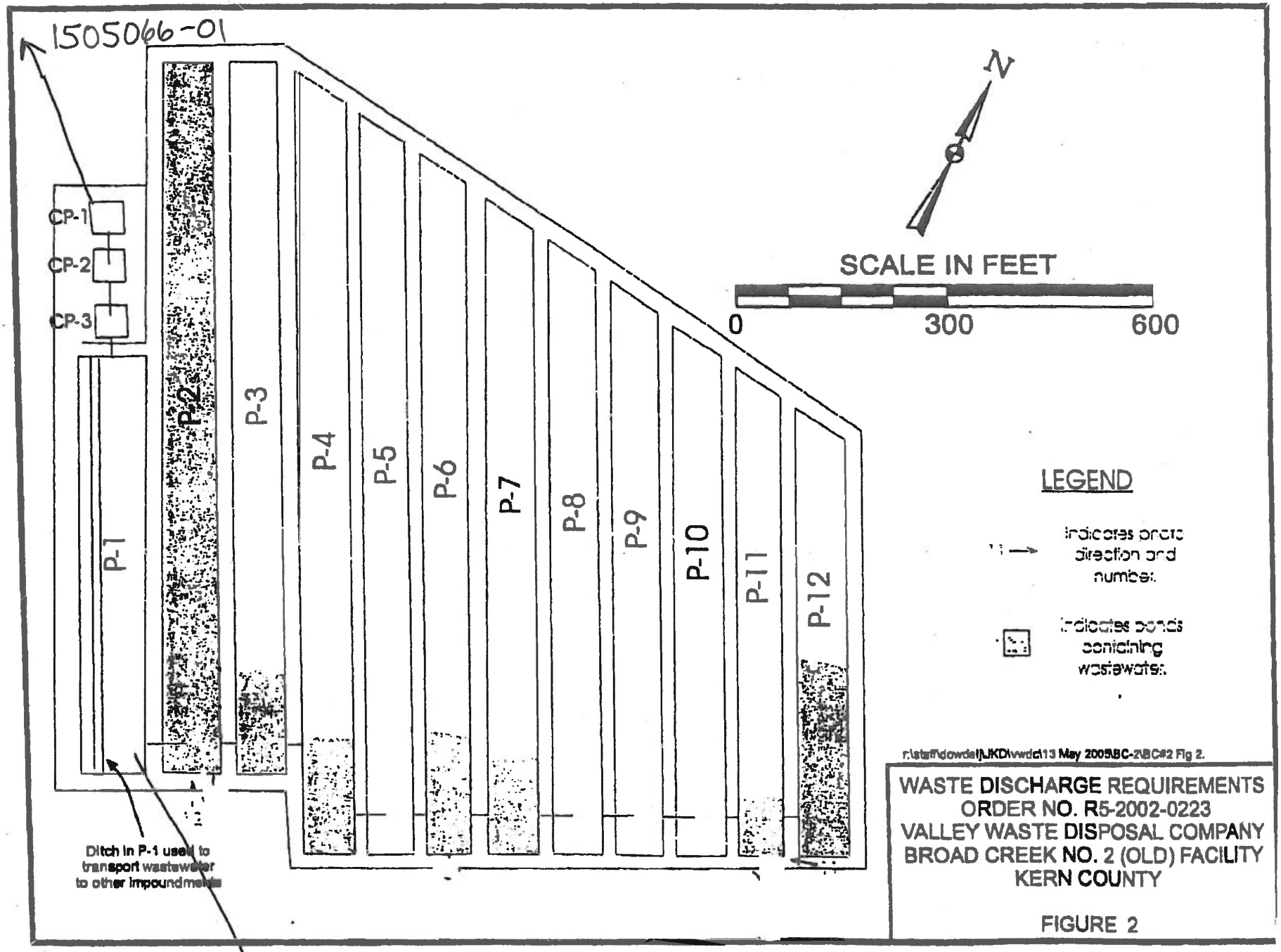
Valley Water Management Company
McKittrick 1-1 Facility
Kern County

Figure 2



WASTE DISCHARGE REQUIREMENTS
ORDER NO. R5-2002-0223
VALLEY WASTE DISPOSAL COMPANY
BROAD CREEK NO. 2 (NEW) FACILITY
KERN COUNTY

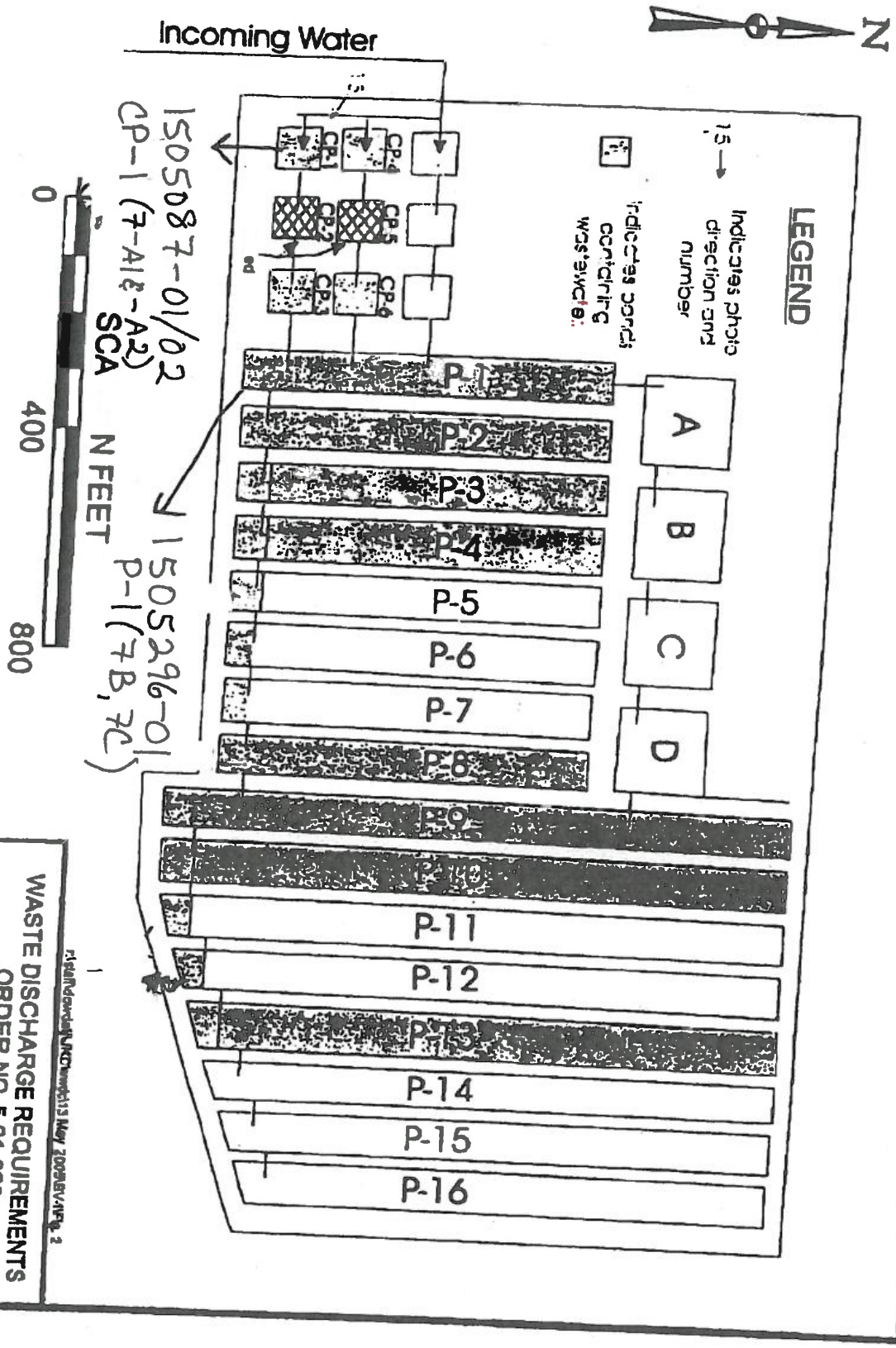
FIGURE 3



r:\staff\dowdell\JKD\wwdd13 May 2005\BC-2\BC#2 Fig 2.

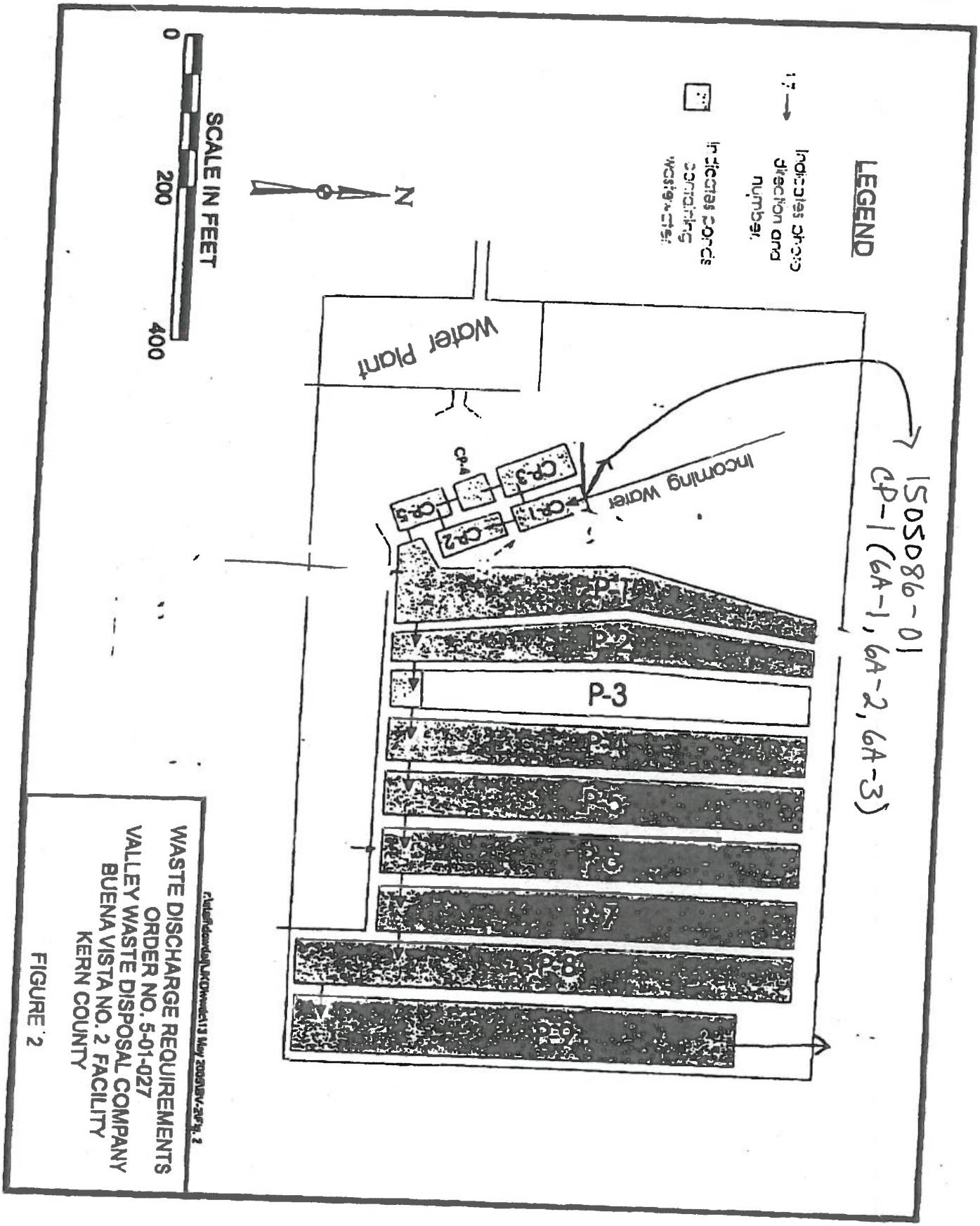
WASTE DISCHARGE REQUIREMENTS
ORDER NO. R5-2002-0223
VALLEY WASTE DISPOSAL COMPANY
BROAD CREEK NO. 2 (OLD) FACILITY
KERN COUNTY

FIGURE 2



WASTE DISCHARGE REQUIREMENTS
ORDER NO. 5-01-026
VALLEY WASTE DISPOSAL COMPANY
BUENA VISTA NO. 1 FACILITY
KERN COUNTY

FIGURE 2



WASTE DISCHARGE REQUIREMENTS
ORDER NO. 5-01-027
VALLEY WASTE DISPOSAL COMPANY
BUENA VISTA NO. 2 FACILITY
KERN COUNTY

FIGURE 2

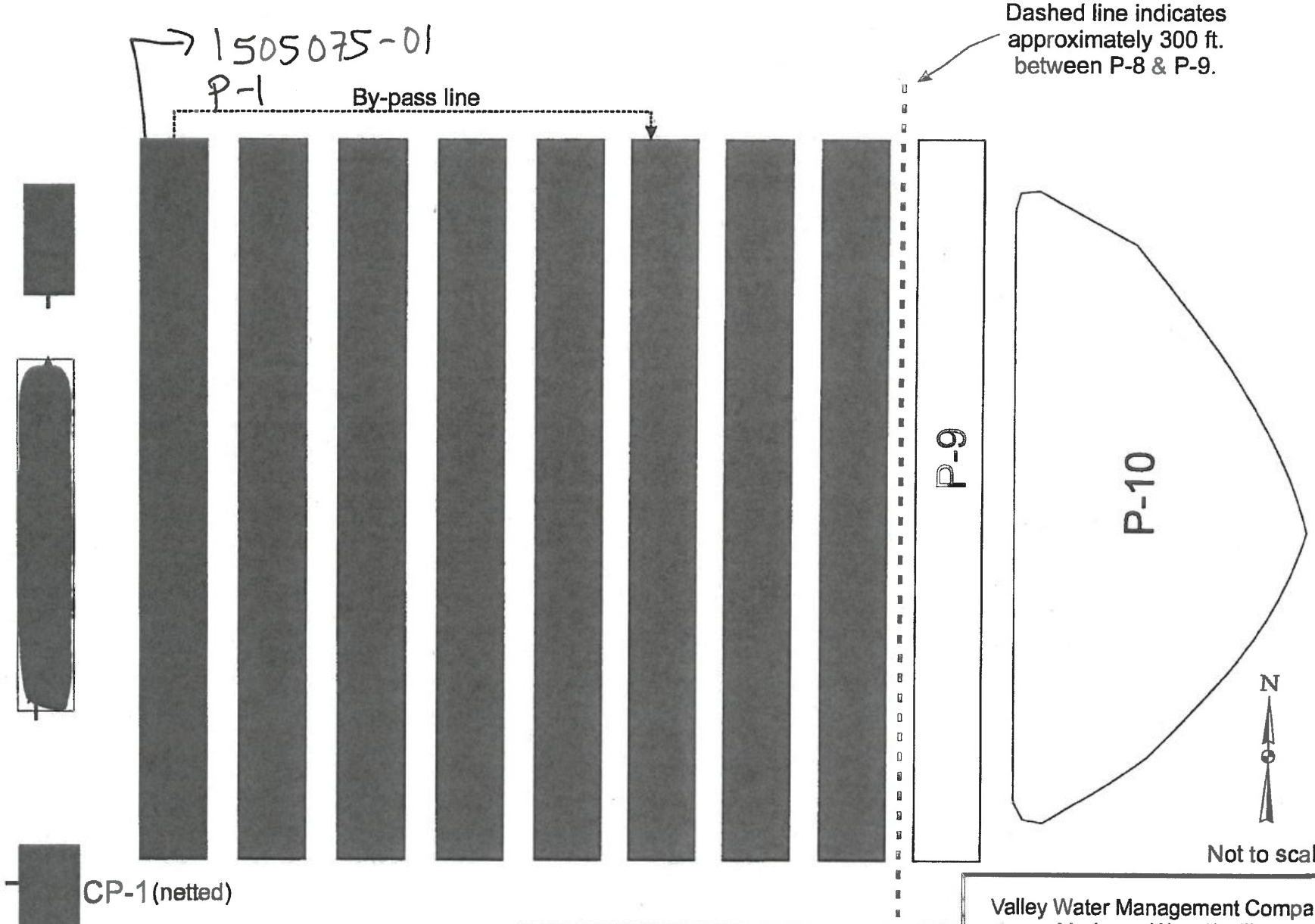
1505074-01
CP-1

Google earth

feet 1000
meters 400

Maricopa East

1505076-01
P-1

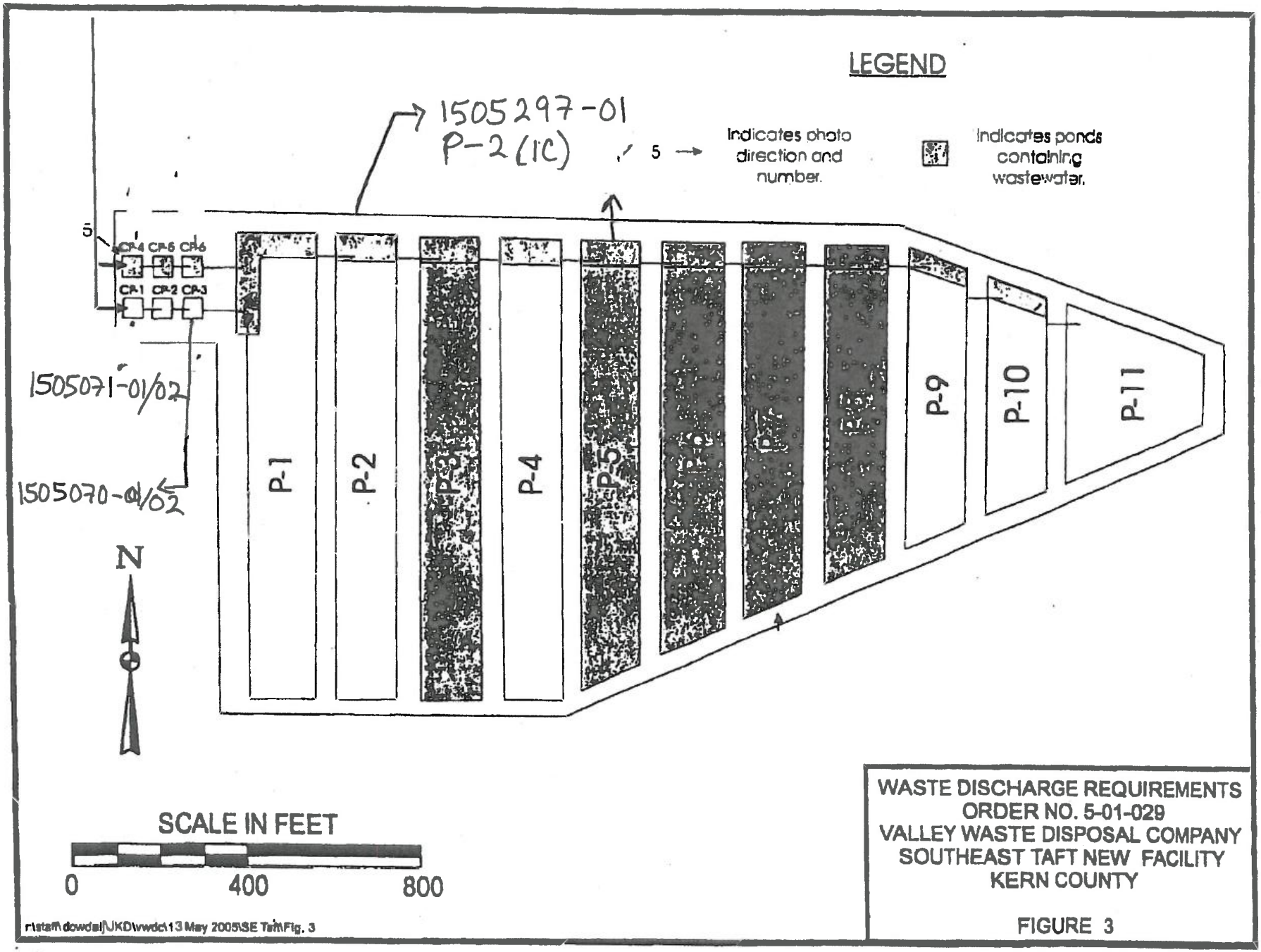


Indicates direction of wastewater flow

Indicates ponds containing wastewater.

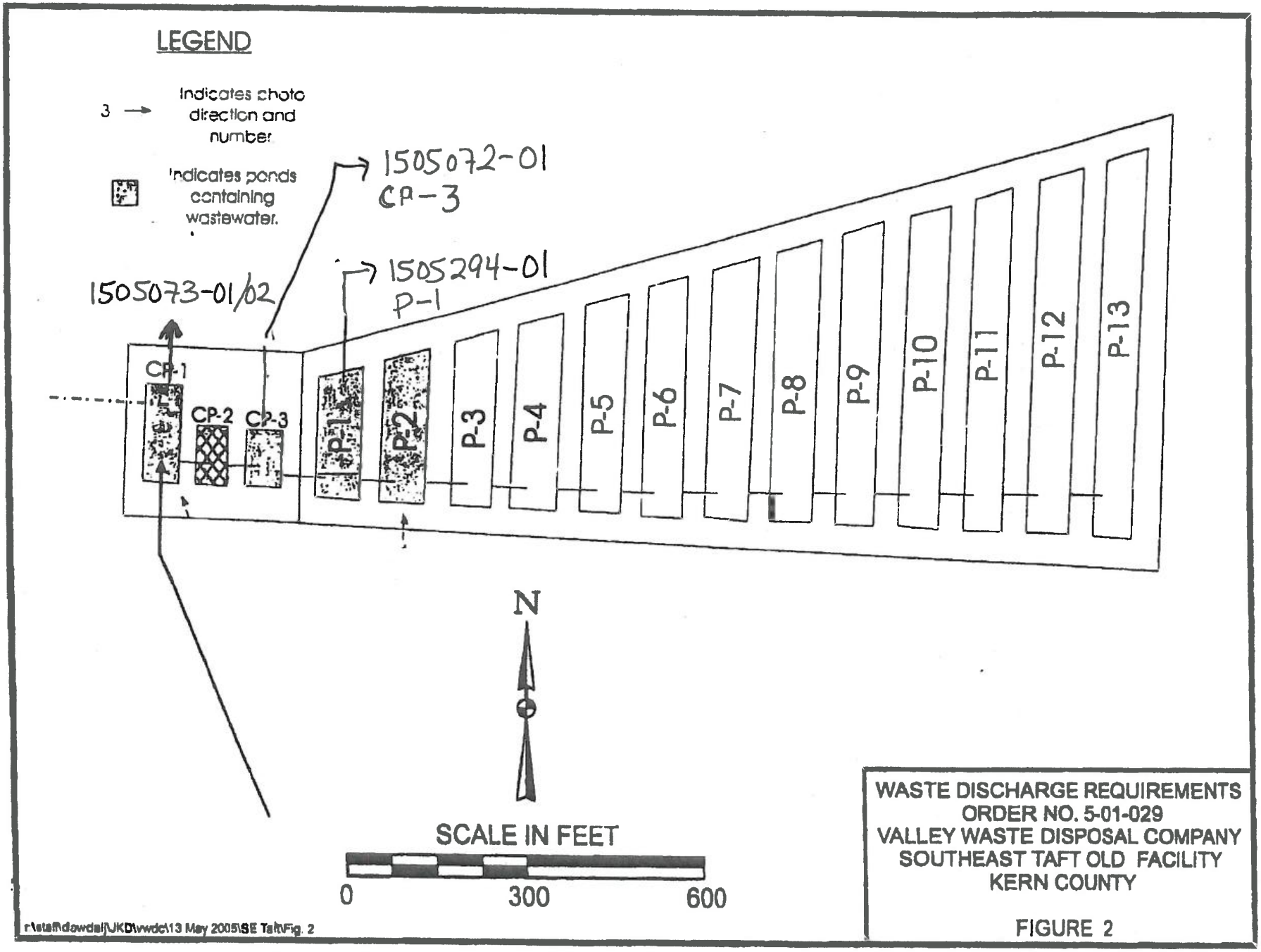
Valley Water Management Company
Maricopa West Facility
Kern County

Figure 2



WASTE DISCHARGE REQUIREMENTS
ORDER NO. 5-01-029
VALLEY WASTE DISPOSAL COMPANY
SOUTHEAST TAFT NEW FACILITY
KERN COUNTY

FIGURE 3



WASTE DISCHARGE REQUIREMENTS
ORDER NO. 5-01-029
VALLEY WASTE DISPOSAL COMPANY
SOUTHEAST TAFT OLD FACILITY
KERN COUNTY

FIGURE 2

r:\staff\dowdal\UKD\vwdc\13 May 2005\SE Taft\Fig. 2

Field:				Edison		Edison	MWSS/BV	
Lease:				C-Plant Fee 34		Racetrack Hill	McKittrick No. 1	
Facility Lat/Long				35.354961/-118.860055		35.392863/-118.821173	35.386157/-119648724	
Zalco Sample ID#				1505108-01	1505107-01	1505109-01	1505089-01	1505090-01
Date(s) Sample Taken				5/8/2015	5/8/2015	5/8/2015	5/7/2015	5/7/2015
Sample Name/Location (Key):				CP-1	P-1	P-1	CP-1	CP-2
Constituent	detection limit	reporting limit	Units					
TDS @ 180°C		10	mg/L	2400	2500	2400	11000	11000
CCR, title 22, section 66261.24, subdivision (a)(2)(A) metals								
Antimony and/or antimony compounds	0.07	2	mg/L	ND	ND	ND	ND	ND
Arsenic and/or arsenic compounds	0.19	0.2	mg/L	ND	ND	ND	0.078	0.066
Barium	1	1	mg/L	0.37	0.42	0.4	1.2	1.3
Beryllium	0.05	0.1	mg/L	ND	ND	ND	ND	ND
Cadmium	0.07	0.1	mg/L	ND	ND	ND	ND	ND
Chromium	0.18	0.5	mg/L	ND	ND	ND	ND	ND
Cobalt	0.06	1	mg/L	ND	ND	ND	ND	ND
Copper	0.16	0.5	mg/L	ND	0.11	ND	ND	ND
Fluoride	0.13	1	mg/L	ND	ND	ND	ND	ND
Lead	0.13	0.5	mg/L	ND	ND	ND	ND	ND
Mercury	0	0	mg/L	ND	ND	ND	ND	ND
Molybdenum	0.13	1	mg/L	ND	ND	ND	ND	ND
Nickel	0.5	0.5	mg/L	ND	ND	ND	ND	ND
Selenium	0.35	0.5	mg/L	ND	ND	ND	ND	ND
Silver	0.03	0.2	mg/L	ND	ND	ND	ND	ND
Thallium	0.24	0.5	mg/L	ND	ND	ND	ND	ND
Vanadium	0.04	1	mg/L	ND	ND	ND	ND	ND
Zinc	0.07	0.5	mg/L	ND	0.15	ND	ND	ND
BTEX			µg/L					
Benzene			µg/L	2410	798	42.3	7.41	5.32
Toluene			µg/L	2210	496	17	49.5	31.8
Ethylbenzene			µg/L	64.2	213	ND	ND	ND
Xylenes			µg/L	1110	417	31.5	34.2	19.3
TPH								
a,a,a-Trifluorotoluene	0.001	0.001	mg/L	ND	ND	ND	0.0084	0.00795
Gasoline Range Hydrocarbons	0.015	0.05	mg/L	7.26	2.94	0.224	0.132	0.103

Motor Oil Range Hydrocarbons		25	mg/kg	2.05	ND	2.34	16.7	9.69
Diesel Range Hydrocarbons	3	10	mg/kg	2.01	3.93	2.14	10.8	7.86
Polynuclear aromatic hydrocarbons								
Acenapthene	0.5	10	µg/L	ND	ND	ND	ND	ND
Acennapthylene	0.5	10	µg/L	ND	ND	ND	ND	ND
Anthracene	0.7	10	µg/L	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.8	10	µg/L	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.7	10	µg/L	ND	ND	ND	ND	ND
Benzo(a)pyrene	0.7	10	µg/L	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.8	10	µg/L	ND	ND	ND	ND	ND
Chrysene	0.8	10	µg/L	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	0.6	10	µg/L	ND	ND	ND	ND	ND
Fluoranthene	0.8	10	µg/L	ND	ND	ND	ND	ND
Fluorene	0.5	10	µg/L	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene		10	µg/L	ND	ND	ND	ND	ND
Napthalene		10	µg/L	37.7	ND	ND	ND	ND
Phenanthrene	0.7	10	µg/L	ND	5.00	ND	ND	ND
Pyrene	0.8	10	µg/L	ND	ND	ND	ND	ND
Radionuclides listed under CCR, title 22, Table 64442								
Radium-226			pCi/L	ND	ND	ND	ND	4.75
Radium-228		2	pCi/L	ND	ND	ND	ND	ND
Gross alpha particle activity (excluding radon and uranium)		15	pCi/L	ND	ND	ND	ND	ND
Uranium		20	pCi/L	ND	ND	ND	ND	ND
Cations:								
Sodium		70	mg/L	780	830	780	5200	5900
Calcium		0.05	mg/L	79	75	69	160	160
Magnesium		0.05	mg/L	10	11	11	49	49
Potassium		0.5	mg/L	11	11	10	82	83
Iron		0.1	mg/L	ND	0.17	0.17	0.11	0.1
Strontium		0.1	mg/L	1.1	1.1	1.1	4.3	4.3
Anions:								
Nitrate	1.86	20	mg/L	ND	ND	ND	ND	ND
Chloride	1.2	500	mg/L	1300	1300	1300	5800	7300
Sulfate	0.31	5	mg/L	9.7	9.9	9.9	140	140
Carbonate		10	mg/L	ND	ND	ND	ND	ND
Bicarbonate		10	mg/L	350	370	350	550	ND
Bromide	0.15	1	mg/L	5.6	5.7	5.6	ND	47
Boron		0.1	mg/L	13	12	12	48	48
Trace Elements (including):								
Lithium	0.01	0.1	mg/L	0.33	0.32	0.3	1.9	1.9

Strontium	0.1	mg/L	1.1	1.1	1.1	4.3	4.3
Manganese	0.03	mg/L	0.092	0.087	0.038	0.08	0.085
Iron	0.1	mg/L	ND	0.17	0.17	0.11	0.1

ZALCO LABORATORIES, INC.
Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

(661) 395-0539
FAX (661) 395-3069

June 12, 2015

Christine L. Zimmerman
Valley Water Management Company
7500 Meany Avenue
Bakersfield, CA 93308

TEL: (661) 205-2885
FAX: (661) 410-7500

Project ID:
RE: 1505107

Dear Christine L. Zimmerman:

Zalco Laboratories, Inc. received 1 samples on 5/8/2015 for the analyses presented in the following report.

We appreciate your business and look forward to serving you in the future. Please feel free to call our office if you have any questions regarding these test results.

Sincerely,

Juan Magana
Project Manager
CC:

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Note: Samples analyzed for regulatory purposes should be put on ice immediately after sampling and received by the laboratory at temperatures between 0-6°C. Microbiological analysis requires samples to be at least 4-10°C when received at the laboratory. For additional information regarding the limitations of the method(s) referred to, please call us at 661-395-0539.

ZALCO LABORATORIES, INC.
Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

(661) 395-0539
FAX (661) 395-3069

Valley Water Management Company	Project: RWQCB Oilfield Ponds - 2Q2015	Work Order No.: **1505107**
7500 Meany Avenue	Project #:	Reported: 06/12/2015
Bakersfield, CA 93308	Attention: Christine L. Zimmerman	Received: 05/08/2015 13:45

Lab Sample ID: **1505107-01**	Collected By: Justin Graves
Client Sample ID: C-Plant Fee 34 P-1	Date Collected: 5/8/2015 8:50:00AM

Analyte	Results	PQL		Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Alkalinity									
Total Alkalinity	370	10		mg/L		SM 2320B	5/8/15	5/8/15	SAM
Bicarbonate (HCO3)	370	10		mg/L		SM 2320B	5/8/15	5/8/15	SAM
Carbonate (CO3)	<10	10		mg/L		SM 2320B	5/8/15	5/8/15	SAM
Hydroxide (OH)	<10	10		mg/L		SM 2320B	5/8/15	5/8/15	SAM
CAM, Toxicity (17 Metals)			*TTLC Limits*						
Antimony	<0.20	0.20	*500*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Arsenic	<0.020	0.020	*500*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Barium	0.42	0.10	*10000*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Beryllium	<0.010	0.010	*75*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Cadmium	<0.010	0.010	*100*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Chromium	<0.050	0.050	*2500*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Cobalt	<0.10	0.10	*8000*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Copper	0.11	0.050	*2500*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Lead	<0.050	0.050	*1000*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Mercury	<0.0020	0.0020	*20*	mg/L		SW846 7470A	5/12/15	5/12/15	SS
Molybdenum	<0.10	0.10	*3500*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Nickel	<0.050	0.050	*2000*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Selenium	<0.05	0.05	*100*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Silver	<0.020	0.020	*500*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Thallium	<0.50	0.50	*700*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Vanadium	<0.10	0.10	*2400*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Zinc	0.15	0.050	*5000*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
General Chemistry			*MCL Limits*						
Fluoride	<5.0	5.0	*2*	mg/L		EPA 300.0	5/8/15	5/8/15	MSS
Nitrate as NO3	<100	100	*45*	mg/L		EPA 300.0	5/8/15	5/8/15	MSS
Electrical Conductivity	4.4	0.010		mmhos/cm		SM 2510B	5/8/15	5/8/15	SAM
Bromide	5.7	0.10		mg/L		EPA 300.0	5/8/15	5/8/15	MSS
Chloride	1300	100		mg/L		EPA 300.0	5/8/15	5/8/15	MSS
pH	7.68			pH Units		EPA 150.1	5/8/15	5/8/15	SAM
Sulfate as SO4	9.9	0.50		mg/L		EPA 300.0	5/8/15	5/8/15	MSS
Total Dissolved Solids	2500	10		mg/L		SM 2540C	5/8/15	5/8/15	SAM
Hardness									

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative
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Valley Water Management Company	Project: RWQCB Oilfield Ponds - 2Q2015	Work Order No.: **1505107**
7500 Meany Avenue	Project #:	Reported: 06/12/2015
Bakersfield, CA 93308	Attention: Christine L. Zimmerman	Received: 05/08/2015 13:45

Lab Sample ID: **1505107-01**	Collected By: Justin Graves
Client Sample ID: C-Plant Fee 34 P-1	Date Collected: 5/8/2015 8:50:00AM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Hardness								
Hardness (as CaCO3)	240	2.0	mg/L		SM 2340B	5/15/15	5/15/15	SS
Metals								
Lithium	0.32	0.10	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Metals - As Received								
Magnesium	11	0.050	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Potassium	11	0.50	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Sodium	830	70	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Calcium	75	0.050	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Iron	0.17	0.10	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Boron	12	0.10	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Barium	0.46	0.10	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Copper	0.054	0.050	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Silica (SiO2)	60	4.0	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Strontium	1.1	0.10	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Manganese	0.087	0.030	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Petroleum Hydrocarbons								
Diesel Range Hydrocarbons	3.93	0.50	mg/L		SW846 8015B	5/20/15	5/21/15	BIG
Gasoline Range Hydrocarbons	2.94	0.250	mg/L		SW846 8015B	5/20/15	5/20/15	HLP
Motor Oil Range Hydrocarbons	<0.15	0.15	mg/L		SW846 8015B	5/20/15	5/21/15	BIG

Surrogates	% Recovery	Recovery Limits	Flag	
a,a,a-Trifluorotoluene	103	69-125		5/20/15 15:05

Semivolatile Organic Compounds								
Indeno(1,2,3-cd)pyrene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Naphthalene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Acenaphthylene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Acenaphthene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Fluorene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Phenanthrene	5.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Anthracene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative

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Lab Sample ID: **1505107-01**	Collected By: Justin Graves
Client Sample ID: C-Plant Fee 34 P-1	Date Collected: 5/8/2015 8:50:00AM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Semivolatile Organic Compounds								
Fluoranthene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Pyrene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Benzo (a) anthracene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Chrysene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Benzo (b) fluoranthene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Benzo (k) fluoranthene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Benzo (a) pyrene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Dibenz (a,h) anthracene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Benzo (g,h,i) perylene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM

Surrogates	% Recovery	Recovery Limits	Flag	
Nitrobenzene-d5	41.3	0-95		5/20/15 14:28
2-Fluorobiphenyl	36.0	0-92		5/20/15 14:28
Terphenyl-d14	9.49	0-100		5/20/15 14:28

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Subcontracted Analyses								
Gross Alpha	<15.0	15.0	pCi/L		SM 7110C	5/16/15	5/19/15	MCS
Radium-226	<3.00	3.00	pCi/L		E903.1	5/18/15	5/21/15	MCS
Radium-228	<2.00	2.00	pCi/L		EPA Ra-05	5/28/15	5/30/15	MCS
Uranium (ug/L)	<20.0	20.0	pCi/L		E908	5/27/15	5/27/15	MCS
Volatile Organic Compounds								
m,p-Xylene	279	25.0	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Benzene	798	250	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Xylenes, total	417		ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Methyl tert-Butyl Ether	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Ethylbenzene	213	25.0	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Toluene	498	25.0	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
o-Xylene	138	25.0	ug/L		SW846 8260B	5/20/15	5/20/15	HLP

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	**84.0***	89-165	S-GC	5/20/15 9:19
Toluene-d8	90.2	65-124		5/20/15 9:19
4-Bromofluorobenzene	94.2	94-114		5/20/15 9:19

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative
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ZALCO LABORATORIES, INC.
4309 Armour Avenue, Bakersfield, CA 93308 (661) 395-0539 FAX (661) 395-3069
2186 Eastman Avenue, Suite 103, Ventura, CA 93003, (805) 477-0114, Fax (805) 477-0125
www.zalcolabs.com

CHAIN OF CUSTODY, ID#

Client PO:
Project ID:
Quote ID:

ANALYSIS REQUESTED 1505107

COMPANY: Valley Water Management Company
CONTACT: Christine L. Zimmerman
PHONE: 661-205-2885 FAX:
ADDRESS: 7500 Meany Ave.
Bakersfield Ca. 93314
E-MAIL: czimmerman@vwwater.com
SAMPLER (SIGNATURE):

COMMENTS
Turnaround Time:
Routine (# working days)
Rush By ___ Working Days
EDT
State Form
EMAIL

LAB #	SAMPLE DESCRIPTION	DATE	TIME	TYPE *	# OF CONTAINERS	GeoChem	TDS	CAM 17	Trace Elements	PNA (8270)	BTEX (8260)	TPH (Fuel Fingerprint)	Radionuclides		No Sample Available (Dry Pond)			TEMPERATURE (C)	Notes
1	C-Plant Fee 34 P-1	5/8/2015	8:50	AQ	12	X		X		X	X	X	X						23°

Relinquished By	Company	Date	Time	Received By	Company
Justin Graves	Zalco Laboratories Inc.	05/08/15	1345	KF	Zalco

NOTE: Samples Discarded 30 days after results unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client's expense.

* Sample Type Key: Aq-Aqueous; BS-Biosolid; DW-Drinking Water; GW-Groundwater; G-Gas LPG-Liquid Petroleum Gas; OL-Oil; P-Petroleum; S-Solid/Soil; ST-Storm water WW-Wastewater

ZALCO LABORATORIES, INC.
Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

(661) 395-0539
FAX (661) 395-3069

June 12, 2015

Christine L. Zimmerman
Valley Water Management Company
7500 Meany Avenue
Bakersfield, CA 93308

TEL: (661) 205-2885
FAX: (661) 410-7500

Project ID:
RE: 1505108

Dear Christine L. Zimmerman:

Zalco Laboratories, Inc. received 1 samples on 5/8/2015 for the analyses presented in the following report.

We appreciate your business and look forward to serving you in the future. Please feel free to call our office if you have any questions regarding these test results.

Sincerely,

Juan Magana
Project Manager
CC:

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative
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ZALCO LABORATORIES, INC.
Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

(661) 395-0539
FAX (661) 395-3069

Valley Water Management Company	Project: RWQCB Oilfield Ponds - 2Q2015	Work Order No.: **1505108**
7500 Meany Avenue	Project #:	Reported: 06/12/2015
Bakersfield, CA 93308	Attention: Christine L. Zimmerman	Received: 05/08/2015 13:45

Lab Sample ID: **1505108-01**	Collected By: Justin Graves
Client Sample ID: Edison C-Plant Fee 34 CP-1	Date Collected: 5/8/2015 9:00:00AM

Analyte	Results	PQL		Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Alkalinity									
Total Alkalinity	350	10		mg/L		SM 2320B	5/8/15	5/8/15	SAM
Bicarbonate (HCO3)	350	10		mg/L		SM 2320B	5/8/15	5/8/15	SAM
Carbonate (CO3)	<10	10		mg/L		SM 2320B	5/8/15	5/8/15	SAM
Hydroxide (OH)	<10	10		mg/L		SM 2320B	5/8/15	5/8/15	SAM
CAM, Toxicity (17 Metals)			*TTLC Limits*						
Antimony	<0.20	0.20	*500*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Arsenic	<0.020	0.020	*500*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Barium	0.37	0.10	*10000*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Beryllium	<0.010	0.010	*75*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Cadmium	<0.010	0.010	*100*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Chromium	<0.050	0.050	*2500*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Cobalt	<0.10	0.10	*8000*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Copper	<0.050	0.050	*2500*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Lead	<0.050	0.050	*1000*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Mercury	<0.0020	0.0020	*20*	mg/L		SW846 7470A	5/12/15	5/12/15	SS
Molybdenum	<0.10	0.10	*3500*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Nickel	<0.050	0.050	*2000*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Selenium	<0.05	0.05	*100*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Silver	<0.020	0.020	*500*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Thallium	<0.50	0.50	*700*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Vanadium	<0.10	0.10	*2400*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Zinc	<0.050	0.050	*5000*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
General Chemistry			*MCL Limits*						
Fluoride	<0.10	0.10	*2*	mg/L		EPA 300.0	5/8/15	5/8/15	MSS
Nitrate as NO3	<2.00	2.00	*45*	mg/L		EPA 300.0	5/8/15	5/8/15	MSS
Electrical Conductivity	4.4	0.010		mmhos/cm		SM 2510B	5/8/15	5/8/15	SAM
Bromide	5.6	0.10		mg/L		EPA 300.0	5/8/15	5/8/15	MSS
Chloride	1300	100		mg/L		EPA 300.0	5/8/15	5/8/15	MSS
pH	7.58			pH Units		EPA 150.1	5/8/15	5/8/15	SAM
Sulfate as SO4	9.7	0.50		mg/L		EPA 300.0	5/8/15	5/8/15	MSS
Total Dissolved Solids	2400	10		mg/L		SM 2540C	5/8/15	5/8/15	SAM
Hardness									

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative
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ZALCO LABORATORIES, INC.
Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

(661) 395-0539
FAX (661) 395-3069

Valley Water Management Company	Project: RWQCB Oilfield Ponds - 2Q2015	Work Order No.: **1505108**
7500 Meany Avenue	Project #:	Reported: 06/12/2015
Bakersfield, CA 93308	Attention: Christine L. Zimmerman	Received: 05/08/2015 13:45

Lab Sample ID: **1505108-01**	Collected By: Justin Graves
Client Sample ID: Edison C-Plant Fee 34 CP-1	Date Collected: 5/8/2015 9:00:00AM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Hardness								
Hardness (as CaCO3)	240	2.0	mg/L		SM 2340B	5/15/15	5/15/15	SS
Metals								
Lithium	0.33	0.10	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Metals - As Received								
Magnesium	10	0.050	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Potassium	11	0.50	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Sodium	780	70	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Calcium	79	0.050	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Iron	<0.10	0.10	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Boron	13	0.10	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Barium	0.43	0.10	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Copper	0.052	0.050	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Silica (SiO2)	59	4.0	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Strontium	1.1	0.10	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Manganese	0.092	0.030	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Petroleum Hydrocarbons								
Diesel Range Hydrocarbons	2.01	0.05	mg/L		SW846 8015B	5/20/15	5/21/15	BIG
Gasoline Range Hydrocarbons	7.26	0.250	mg/L		SW846 8015B	5/20/15	5/20/15	HLP
Motor Oil Range Hydrocarbons	2.05	0.15	mg/L		SW846 8015B	5/20/15	5/21/15	BIG

Surrogates	% Recovery	Recovery Limits	Flag	
a,a,a-Trifluorotoluene	111	69-125		5/20/15 15:05

Semivolatile Organic Compounds								
Indeno(1,2,3-cd)pyrene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Naphthalene	37.7	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Acenaphthylene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Acenaphthene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Fluorene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Phenanthrene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Anthracene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative
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Analytical & Consulting Services

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Bakersfield, California 93308

(661) 395-0539
FAX (661) 395-3069

Valley Water Management Company	Project: RWQCB Oilfield Ponds - 2Q2015	Work Order No.: **1505108**
7500 Meany Avenue	Project #:	Reported: 06/12/2015
Bakersfield, CA 93308	Attention: Christine L. Zimmerman	Received: 05/08/2015 13:45

Lab Sample ID: **1505108-01** — Collected By: Justin Graves

Client Sample ID: Edison C-Plant Fee 34 CP-1 — Date Collected: 5/8/2015 9:00:00AM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Semivolatile Organic Compounds								
Fluoranthene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Pyrene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Benzo (a) anthracene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Chrysene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Benzo (b) fluoranthene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Benzo (k) fluoranthene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Benzo (a) pyrene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Dibenz (a,h) anthracene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Benzo (g,h,i) perylene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM

Surrogates	% Recovery	Recovery Limits	Flag	
Nitrobenzene-d5	39.8	0-95		5/20/15 14:28
2-Fluorobiphenyl	30.7	0-92		5/20/15 14:28
Terphenyl-d14	12.1	0-100		5/20/15 14:28

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Subcontracted Analyses								
Gross Alpha	<15.0	15.0	pCi/L		SM 7110C	5/26/15	5/27/15	MCS
Radium-226	<3.00	3.00	pCi/L		E903.1	5/18/15	5/22/15	MCS
Radium-228	<2.00	2.00	pCi/L		EPA Ra-05	5/28/15	5/30/15	MCS
Uranium (ug/L)	<20.0	20.0	pCi/L		E908	5/29/15	5/29/15	MCS
Volatile Organic Compounds								
m,p-Xylene	759	25.0	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Benzene	2410	250	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Xylenes, total	1110		ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Methyl tert-Butyl Ether	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Ethylbenzene	64.2	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Toluene	2210	250	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
o-Xylene	354	25.0	ug/L		SW846 8260B	5/20/15	5/20/15	HLP

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	93.3	89-165		5/20/15 9:19
Toluene-d8	98.8	65-124		5/20/15 9:19
4-Bromofluorobenzene	**89.4***	94-114	S-GC	5/20/15 9:19

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative
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June 1, 2015

Zalco Laboratories, Inc.
4309 Armour Avenue
Bakersfield, CA 93308-4573

Description : 1505108-01
Project : 1505108

Lab ID : SP 1505247-001
Customer ID : 2-249

Sampled On : May 8, 2015-09:00
Sampled By : Not Available
Received On : May 12, 2015-11:30
Matrix : Water

Sample Result - Radio

Constituent	Result ± Error	MDA	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Radio Chemistry[P]								
Gross Alpha	5.44 ± 5.34	7.11	pCi/L	15/5	900.0	05/26/15-08:00 2P1506046	900.0	05/27/15-10:00 2A1507903
Total Alpha Radium (226)	1.21 ± 0.436	0.470	pCi/L	3	903.0	05/18/15-19:30 2P1505776	903.0	05/22/15-07:40 2A1507600
Uranium	0.000 ± 0.449	0.300	pCi/L	20	908.0	05/29/15-06:15 2P1506220	908.0	05/29/15-17:31 2A1508054
Ra 228	0.423 ± 1.32	0.506	pCi/L	2	Ra - 05	05/28/15-19:30 2P1505775	Ra - 05	05/30/15-13:00 2A1508030

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: N/A * PQL adjusted for dilution.

MDA = Minimum Detectable Activity (Calculated at the 95% confidence level) = Data utilized by DHS to determine matrix interference.
MCL / AL = Maximum Contamination Level / Action Level. Alpha's Action Level of 5 pCi/L is based on the Assigned Value (AV).
AV = Assigned Value(Gross Alpha Result + (0.84 x Error)). CCR Section 64442: Drinking Water Compliance Note: Do the following
If Gross Alpha's (AV) exceeds 5 pCi/L run Uranium. If Gross Alpha's (AV) minus Uranium exceeds 5 pCi/L run Radium 226.

Drinking Water Compliance:
Gross Alpha (AV) minus Uranium is less than or equal to 15 pCi/L
Uranium is less than or equal to 20 pCi/L
Radium 226 + Radium 228 is less than or equal to 5 pCi/L

Note: Samples are held for 3-6 months prior to disposal.

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

ZALCO LABORATORIES, INC.
4309 Armour Avenue, Bakersfield, CA 93308 (661) 395-0539 FAX (661) 395-3069
2186 Eastman Avenue, Suite 103, Ventura, CA 93003, (805) 477-0114, Fax (805) 477-0125
www.zalcolabs.com

CHAIN OF CUSTODY, ID#

Client PO:
Project ID:
Quote ID:

ANALYSIS REQUESTED 1505108

COMPANY: Valley Water Management Company
CONTACT: Christine L. Zimmerman
PHONE: 661-205-2885 FAX:
ADDRESS: 7500 Meany Ave.
Bakersfield Ca. 93314
E-MAIL: czimmerman@vwwater.com
SAMPLER (SIGNATURE):

COMMENTS
Turnaround Time:
Routine (# working days)
Rush By Working Days
EDT
State Form
EMAIL

LAB #	SAMPLE DESCRIPTION	DATE	TIME	TYPE *	# OF CONTAINERS	GeoChem	TDS	CAM 17	Trace Elements	PNA (8270)	BTEX (8260)	TPH (Fuel Fingerprint)	Radionuclides	Potassium	No Sample Available (Dry Pond)			TEMPERATURE (C)	Notes
1	Edison C-Plant Fee 34 CP-1	5/8/2015	9:00	AQ	12	X		X		X	X	X	X						24.2

Justin Graves	Zalco Laboratories Inc.	05/08/15	1345			Zalco

NOTE: Samples Discarded 30 days after results unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client's expense.

* Sample Type Key: Aq-Aqueous; BS-Biosolid; DW-Drinking Water; GW-Groundwater; G-Gas LPG-Liquid Petroleum Gas; OL-Oil; P-Petroleum; S-Solid/Soil; ST-Storm water WW-Wastewater

ZALCO LABORATORIES, INC.
Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

(661) 395-0539
FAX (661) 395-3069

June 12, 2015

Christine L. Zimmerman
Valley Water Management Company
7500 Meany Avenue
Bakersfield, CA 93308

TEL: (661) 205-2885
FAX: (661) 410-7500

Project ID:
RE: 1505109

Dear Christine L. Zimmerman:

Zalco Laboratories, Inc. received 1 samples on 5/8/2015 for the analyses presented in the following report.

We appreciate your business and look forward to serving you in the future. Please feel free to call our office if you have any questions regarding these test results.

Sincerely,

Juan Magana
Project Manager
CC:

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative
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Valley Water Management Company	Project: RWQCB Oilfield Ponds - 2Q2015	Work Order No.: **1505109**
7500 Meany Avenue	Project #:	Reported: 06/12/2015
Bakersfield, CA 93308	Attention: Christine L. Zimmerman	Received: 05/08/2015 13:45

Lab Sample ID: **1505109-01**	Collected By: Justin Graves
Client Sample ID: Edison Reacetrack Hill P-1	Date Collected: 5/8/2015 9:40:00AM

Analyte	Results	PQL		Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Alkalinity									
Total Alkalinity	350	10		mg/L		SM 2320B	5/8/15	5/8/15	SAM
Bicarbonate (HCO3)	350	10		mg/L		SM 2320B	5/8/15	5/8/15	SAM
Carbonate (CO3)	<10	10		mg/L		SM 2320B	5/8/15	5/8/15	SAM
Hydroxide (OH)	<10	10		mg/L		SM 2320B	5/8/15	5/8/15	SAM
CAM, Toxicity (17 Metals)			*TTLC Limits*						
Antimony	<0.20	0.20	*500*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Arsenic	<0.020	0.020	*500*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Barium	0.40	0.10	*10000*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Beryllium	<0.010	0.010	*75*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Cadmium	<0.010	0.010	*100*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Chromium	<0.050	0.050	*2500*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Cobalt	<0.10	0.10	*8000*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Copper	<0.050	0.050	*2500*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Lead	<0.050	0.050	*1000*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Mercury	<0.0020	0.0020	*20*	mg/L		SW846 7470A	5/12/15	5/12/15	SS
Molybdenum	<0.10	0.10	*3500*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Nickel	<0.050	0.050	*2000*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Selenium	<0.05	0.05	*100*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Silver	<0.020	0.020	*500*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Thallium	<0.50	0.50	*700*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Vanadium	<0.10	0.10	*2400*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Zinc	<0.050	0.050	*5000*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
General Chemistry			*MCL Limits*						
Fluoride	<0.10	0.10	*2*	mg/L		EPA 300.0	5/8/15	5/8/15	MSS
Nitrate as NO3	<2.00	2.00	*45*	mg/L		EPA 300.0	5/8/15	5/8/15	MSS
Electrical Conductivity	4.3	0.010		mmhos/cm		SM 2510B	5/8/15	5/8/15	SAM
Bromide	5.6	0.10		mg/L		EPA 300.0	5/8/15	5/8/15	MSS
Chloride	1300	100		mg/L		EPA 300.0	5/8/15	5/8/15	MSS
pH	7.98			pH Units		EPA 150.1	5/8/15	5/8/15	SAM
Sulfate as SO4	9.9	0.50		mg/L		EPA 300.0	5/8/15	5/8/15	MSS
Total Dissolved Solids	2400	10		mg/L		SM 2540C	5/8/15	5/8/15	SAM
Hardness									

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Valley Water Management Company	Project: RWQCB Oilfield Ponds - 2Q2015	Work Order No.: **1505109**
7500 Meany Avenue	Project #:	Reported: 06/12/2015
Bakersfield, CA 93308	Attention: Christine L. Zimmerman	Received: 05/08/2015 13:45

Lab Sample ID: **1505109-01**	Collected By: Justin Graves
Client Sample ID: Edison Reacetrack Hill P-1	Date Collected: 5/8/2015 9:40:00AM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Hardness								
Hardness (as CaCO3)	220	2.0	mg/L		SM 2340B	5/15/15	5/15/15	SS
Metals								
Lithium	0.30	0.10	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Metals - As Received								
Magnesium	11	0.050	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Potassium	10	0.50	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Sodium	780	70	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Calcium	69	0.050	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Iron	0.17	0.10	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Boron	12	0.10	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Barium	0.47	0.10	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Copper	0.052	0.050	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Silica (SiO2)	62	4.0	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Strontium	1.1	0.10	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Manganese	0.038	0.030	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Petroleum Hydrocarbons								
Diesel Range Hydrocarbons	2.14	0.05	mg/L		SW846 8015B	5/20/15	5/21/15	BIG
Gasoline Range Hydrocarbons	0.244	0.050	mg/L		SW846 8015B	5/20/15	5/20/15	HLP
Motor Oil Range Hydrocarbons	2.34	0.15	mg/L		SW846 8015B	5/20/15	5/21/15	BIG

Surrogates	% Recovery	Recovery Limits	Flag	
a,a,a-Trifluorotoluene	88.6	69-125		5/20/15 15:05

Semivolatile Organic Compounds								
Indeno(1,2,3-cd)pyrene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Naphthalene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Acenaphthylene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Acenaphthene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Fluorene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Phenanthrene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Anthracene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM

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Valley Water Management Company	Project: RWQCB Oilfield Ponds - 2Q2015	Work Order No.: **1505109**
7500 Meany Avenue	Project #:	Reported: 06/12/2015
Bakersfield, CA 93308	Attention: Christine L. Zimmerman	Received: 05/08/2015 13:45

Lab Sample ID: **1505109-01**	Collected By: Justin Graves
Client Sample ID: Edison Reacetrack Hill P-1	Date Collected: 5/8/2015 9:40:00AM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Semivolatile Organic Compounds								
Fluoranthene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Pyrene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Benzo (a) anthracene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Chrysene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Benzo (b) fluoranthene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Benzo (k) fluoranthene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Benzo (a) pyrene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Dibenz (a,h) anthracene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Benzo (g,h,i) perylene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM

Surrogates	% Recovery	Recovery Limits	Flag	
Nitrobenzene-d5	34.0	0-95		5/20/15 14:28
2-Fluorobiphenyl	34.2	0-92		5/20/15 14:28
Terphenyl-d14	9.95	0-100		5/20/15 14:28

Subcontracted Analyses								
Gross Alpha	<15.0	15.0	pCi/L		SM 7110C	5/26/15	5/27/15	MCS
Radium-226	<3.00	3.00	pCi/L		E903.1	5/18/15	5/22/15	MCS
Radium-228	<2.00	2.00	pCi/L		EPA Ra-05	5/28/15	5/30/15	MCS
Uranium (ug/L)	<20.0	20.0	pCi/L		E908	5/29/15	5/29/15	MCS
Volatile Organic Compounds								
m,p-Xylene	10.0	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Benzene	42.3	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Xylenes, total	31.5		ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Methyl tert-Butyl Ether	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Ethylbenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Toluene	17.0	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
o-Xylene	21.5	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	91.8	89-165		5/20/15 9:19
Toluene-d8	84.8	65-124		5/20/15 9:19
4-Bromofluorobenzene	97.4	94-114		5/20/15 9:19

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2186 Eastman Avenue, Suite 103, Ventura, CA 93003, (805) 477-0114, Fax (805) 477-0125
www.zalcolabs.com

CHAIN OF CUSTODY, ID#

Client PO:
Project ID:
Quote ID:

ANALYSIS REQUESTED 1505109

COMPANY: Valley Water Management Company
CONTACT: Christine L. Zimmerman
PHONE: 661-205-2885 FAX:
ADDRESS: 7500 Meany Ave.
Bakersfield Ca. 93314
E-MAIL: czimmerman@vwwater.com
SAMPLER (SIGNATURE):

COMMENTS
Turnaround Time:
Routine (# working days)
Rush By Working Days
EDT
State Form
EMAIL

LAB #	SAMPLE DESCRIPTION	DATE	TIME	TYPE *	# OF CONTAINERS	GeoChem	TDS	CAM 17	Trace Elements	PNA (8270)	BTEX (8260)	TPH (Fuel Fingerprint)	Radionuclides	Potassium	No Sample Available (Dry Pond)			TEMPERATURE (C)	Notes
1	Edison Racetrack Hill P-1	5/8/2015	9:40	AQ	12	X		X		X	X	X	X						22

Relinquished By	Company	Date	Time	Received By	Company
Justin Graves	Zalco Laboratories Inc.	05/08/15	1345		Zalco

NOTE: Samples Discarded 30 days after results unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client's expense.

* Sample Type Key: Aq-Aqueous; BS-Biosolid; DW-Drinking Water; GW-Groundwater; G-Gas LPG-Liquid Petroleum Gas; OL-Oil; P-Petroleum; S-Solid/Soil; ST-Storm water WW-Wastewater

June 1, 2015

Zalco Laboratories, Inc.
4309 Armour Avenue
Bakersfield, CA 93308-4573

Lab ID : SP 1505248-001
Customer ID : 2-249

Sampled On : May 8, 2015-09:40
Sampled By : Not Available
Received On : May 12, 2015-11:30
Matrix : Water

Description : 1505109-01
Project : 1505109

Sample Result - Radio

Constituent	Result ± Error	MDA	Units	MCL/AL	Sample Preparation Method	Sample Preparation Date/ID	Sample Analysis Method	Sample Analysis Date/ID
Radio Chemistry[P]								
Gross Alpha	5.77 ± 5.42	7.28	pCi/L	15/5	900.0	05/26/15-08:00 2P1506046	900.0	05/27/15-12:00 2A1507901
Total Alpha Radium (226)	1.91 ± 0.529	0.470	pCi/L	3	903.0	05/18/15-19:30 2P1505776	903.0	05/22/15-08:00 2A1507600
Uranium	0.000 ± 0.449	0.300	pCi/L	20	908.0	05/29/15-06:15 2P1506220	908.0	05/29/15-17:56 2A1508054
Ra 228	0.000 ± 1.04	0.400	pCi/L	2	Ra - 05	05/28/15-19:30 2P1505775	Ra - 05	05/30/15-12:40 2A1508029

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: N/A * PQL adjusted for dilution.

MDA = Minimum Detectable Activity (Calculated at the 95% confidence level) = Data utilized by DHS to determine matrix interference.
MCL / AL = Maximum Contamination Level / Action Level. Alpha's Action Level of 5 pCi/L is based on the Assigned Value (AV).
AV = Assigned Value(Gross Alpha Result + (0.84 x Error)). CCR Section 64442: Drinking Water Compliance Note: Do the following
If Gross Alpha's (AV) exceeds 5 pCi/L run Uranium. If Gross Alpha's (AV) minus Uranium exceeds 5 pCi/L run Radium 226.

Drinking Water Compliance:
Gross Alpha (AV) minus Uranium is less than or equal to 15 pCi/L
Uranium is less than or equal to 20 pCi/L
Radium 226 + Radium 228 is less than or equal to 5 pCi/L

Note: Samples are held for 3-6 months prior to disposal.

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

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3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

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CHAIN OF CUSTODY, ID#

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ANALYSIS REQUESTED 1505109

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ADDRESS: 7500 Meany Ave.
Bakersfield Ca. 93314
E-MAIL: czimmerman@vwwater.com
SAMPLER (SIGNATURE):

COMMENTS
Turnaround Time:
Routine (# working days) ☐
Rush By ☐ Working Days
EDT ☐
State Form ☐
EMAIL ☐

LAB #	SAMPLE DESCRIPTION	DATE	TIME	TYPE *	# OF CONTAINERS	GeoChem	TDS	CAM 17	Trace Elements	PNA (8270)	BTEX (8260)	TPH (Fuel Fingerprint)	Radionuclides	Potassium	No Sample Available (Dry Pond)			TEMPERATURE (°C)	Notes
1	Edison Racetrack Hill P-1	5/8/2015	9:40	AQ	12	X		X		X	X	X	X						22

Relinquished By	Company	Date	Time	Received By	Company
Justin Graves	Zalco Laboratories Inc.	05/08/15	1345		Zalco

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