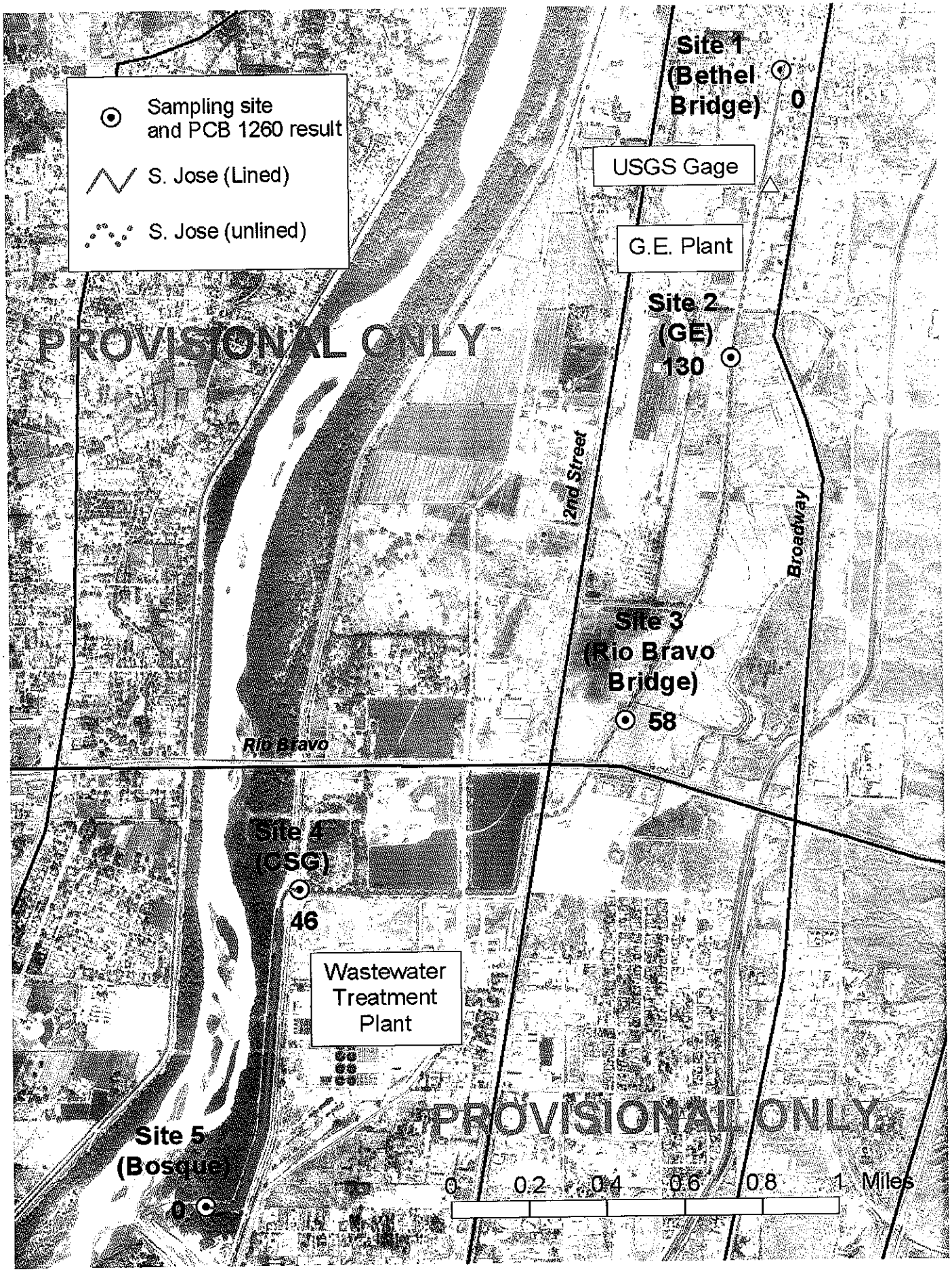
2

SAN JOSE DRAIN PCB SEDIMENT SCREENING


Sampling site and PCB 1260 result
S. Jose (Lined)
S. Jose (unlined)
Site 1 (Bethel Bridge)
0
USGS Gage
G.E. Plant
Site 2 (GE)
130
PROVISIONAL ONLY
2nd Street
Broadway
Site 3 (Rio Bravo Bridge)
58
Rio Bravo
Site 4 (CSG)
46
Wastewater Treatment Plant
PROVISIONAL ONLY
Site 5 (Bosque)
0
0 0.2 0.4 0.6 0.8 1 Miles

PCB SAMPLING RESULTS IN SAN JOSE DRAIN; MAY 27, 2010

(IN ALL CASES, AROCLOR 1260 WAS THE ONLY PCB DETECTED)

Site Number	Location Description (see aerial photo map of locations)	Locations by Latitude and Longitude Coordinates	Aroclor 1260 Concentration in ug/kg or ppb	Sample Detection Level in ug/kg or ppb (varies due to sample size)	State Lab Sample Number
1	Upstream-most location where San Jose Drain daylights under Bethel Road. Approx. 0.3 mile upstream of USGS gage at Woodward Road	Lat. N35 03' 12.7" Long. W106 38' 51"	UNDETECTED	9.9	OR-201000944
2	Approx. 0.4 mile downstream of USGS gage at Woodward Road and 0.1 mile downstream of railroad tracks and petroleum tank farm	Lat. N35 02' 33" Long. W106 38' 59"	130.0	13.0	OR-201000945
3	Approximately 0.1 mile upstream of culverts under Rio Bravo	Lat. N35 01' 44.6" Long. W106 39' 16.8"	58.0	6.7	OR-201000946
4	At the juncture of the earthen-bottom and concrete-lined portions of San Jose Drain; approx. 0.3 miles directly south of Rio Bravo and where river-side drain intersects San Jose Drain	Lat. N35 01' 21.3" Long. W106 40' 9.5"	46.0	6.9	OR-201000949
5	Mouth of San Jose Drain, approximately 0.2 miles above confluence with Rio Grande	Lat. N35 00' 38.7" Long. W106 40' 24.2"	UNDETECTED	7.4	OR-201000948
field blank	baked sandy soil, previously tested to be PCB-free	n/a	UNDETECTED	7.0	OR-201000947

STATE OF NEW MEXICO — DEPARTMENT OF HEALTH

SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700 — 700 Camino de Salud, NE
Albuquerque, NM 87196-4700 — (505) 841-2500
ORGANIC CHEMISTRY SECTION: (505) 841-2571

☐ REPORT TO CLIENT

Sertil Kanbar
Department of Municipal Development
(Urban Runoffs) Storm Drainage Design
400 Marquette NW, Room 301
Albuquerque NM 87103

☐ SLD COPY

SLD No. OR:	201000944
REQUEST ID No.:	2436037
RECEIVED AT SLD:	5/27/10
USER:	30115
SLD TEST CODE:	759

☐ REPORT TO CLIENT

Todd Kelly
U S Geological Survey
5338 Montgomery Blvd NE
Suite 400
Albuquerque NM 87109

SAMPLE COLLECTION DATE:	5/27/10	TIME:	11:15	COLLECTOR:	KELLY-USGS
FACILITY NAME:	SAN JOSE DRAIN				
SAMPLING LOCATION:	Site #1				
SAMPLE MATRIX:	soil			REPORTING UNITS:	ug/kg (micrograms/kilograms)
LABORATORY COMMENTS:	No Target Analytes were detected in this sample.				

EPA METHOD SW-846 8082 Polychlorinated Biphenyls by GC/ECD.

DATE EXTRACTED:	6/3/2010	7 Days: Within EPA Holding Time
DATE ANALYZED:	6/5/2010	2 Days: Within EPA Analysis Time
SAMPLE AMOUNT (g):	9.38	
PERCENT MOISTURE:	27.8%	
DRY WEIGHT (g):	6.95	

ANALYSIS No. OR:	201000944
SLD BATCH No.:	120
DILUTION FACTOR:	1.44
REQUEST ID No.:	2436037
EXTRACTION TECHNIQUE:	sonication

CAS#	METHOD ANALYTES	CONC. (ug/kg)	QUAL	SDL	MDL
11104-28-2	Aroclor 1221		U	11	7.5
11141-16-5	Aroclor 1232		U	12	8.4
53469-21-9	Aroclor 1242/1016		U	12	8.6
12672-29-6	Aroclor 1248		U	6.5	4.5
11097-69-1	Aroclor 1254		U	6.5	4.5
11096-82-5	Aroclor 1260		U	9.9	6.9
1336-36-3	Polychlorinated Biphenyls (PCBs)		U	12	8.6

QC RANGE	METHOD 8082 SURROGATES	CONC. (ug/kg)	RECOVERY	EVAL
35% - 121%	Decachlorobiphenyl (spiked at 100 ug/kg)	73	73 %	normal

ANALYST: Kristin Cochran KC — QC REVIEWED BY: Tim Chapman TMC

DEFINITIONS

CAS# Chemical Abstract Services Number - Unique number to help identify analytes listed by different names
CONC. Concentration (ug/kg) of analyte actually detected in the sample
QUAL Qualifier of analytical results as follows:
- B Analyte was detected in laboratory blank
- J Analyte was detected at a level below which an accurate quantitation can be given (less than the SDL)
- U No analyte was detected above the Sample Detection Limit.

SDL Sample Detection Limit - The lowest concentration which can be differentiated from Zero with 99% confidence taking sample size into account. (SDL = Dilution factor x Method Detection Limit.)
ug/kg Concentration Units - micrograms per kilogram which is equivalent to Parts Per Billion (ppb)

STATE OF NEW MEXICO — DEPARTMENT OF HEALTH

SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700 — 700 Camino de Salud, NE
Albuquerque, NM 87196-4700 — (505) 841-2500
ORGANIC CHEMISTRY SECTION (505) 841-2571

☑ REPORT TO CLIENT

Sertil Kanbar
Department of Municipal Development
(Urban Runoffs) Storm Drainage Design
400 Marquette NW, Room 301
Albuquerque NM 87103

☐ SLD COPY

SLD No. OR:	201000947
REQUEST ID No.:	2436041
RECEIVED AT SLD:	5/27/10
USER:	30115
SLD TEST CODE:	759

☐ REPORT TO CLIENT

Todd Kelly
U S Geological Survey
5338 Montgomery Blvd NE
Suite 400
Albuquerque NM 87109

SAMPLE COLLECTION DATE:	5/27/10	TIME:	13:20	COLLECTOR:	KELLY
FACILITY NAME:	SAN JOSE				
SAMPLING LOCATION:	Site #6				
SAMPLE MATRIX:	soil			REPORTING UNITS:	ug/kg (micrograms/kilogram)
LABORATORY COMMENTS:	No Target Analytes were detected in this sample.				

EPA METHOD SW-846 8082 Polychlorinated Biphenyls by GC/ECD.

DATE EXTRACTED:	6/3/2010	7 Days: Within EPA Holding Time
DATE ANALYZED:	6/5/2010	2 Days: Within EPA Analysis Time
SAMPLE AMOUNT (g):	9.93	
PERCENT MOISTURE:	0.8%	
DRY WEIGHT (g):	9.85	

ANALYSIS No. OR:	201000947
SLD BATCH No.:	120
DILUTION FACTOR:	1.02
REQUEST ID No.:	2436041
EXTRACTION TECHNIQUE:	sonication

CAS #	METHOD ANALYTES	CONC. (ug/kg)	QUAL	SDL	MDL
11104-28-2	Aroclor 1221		U	7.6	7.5
11141-16-5	Aroclor 1232		U	8.5	8.4
53469-21-9	Aroclor 1242/1016		U	8.7	8.6
12672-29-6	Aroclor 1248		U	4.6	4.5
11097-69-1	Aroclor 1254		U	4.6	4.5
11096-82-5	Aroclor 1260		U	7.0	6.9
1336-36-3	Polychlorinated Biphenyls (PCBs)		U	8.7	8.6

QC RANGE	METHOD 8082 SURROGATES	CONC. (ug/kg)	RECOVERY	EVAL
35% - 121%	Decachlorobiphenyl (spiked at 100 ug/kg)	76	76 %	normal

ANALYST: Kristin Cochran KC

QC REVIEWED BY: TFC Tim Chapman

DEFINITIONS

CAS# Chemical Abstract Services Number - Unique number to help identify analytes listed by different names
CONC. Concentration (ug/kg) of analyte actually detected in the sample
QUAL Qualifier of analytical results as follows:
- B Analyte was detected in laboratory blank
- J Analyte was detected at a level below which an accurate quantitation can be given (less than the SDL)
- U No analyte was detected above the Sample Detection Limit.

SDL Sample Detection Limit - The lowest concentration which can be differentiated from Zero with 99% confidence taking sample size into account. (SDL = Dilution factor x Method Detection Limit.)
ug/kg Concentration Units - micrograms per kilogram which is equivalent to Parts Per Billion (ppb)

NEW MEXICO DEPARTMENT OF HEALTH

Request ID Label R#72

2436041

One Form Per Sample

CHEMISTRY BUREAU
Scientific Laboratory Division
700 Camino de Salud NE - PO Box 4700
Albuquerque, NM 87196 - 4700
Phone 505 841 2500

ANALYTICAL REQUEST FORM (INTERACTIVE)

Lab Accession # Here

One Form Per Sample

ORGANIC CHEMISTRY
OR1000947

LAB USE ONLY >>> DATE <<<TIME STAMP: MAY 27 PM 2:57

- ○ 55321 (GWB - remediation superfund)
- ○ 55410 (GWB - pollution prevention)
- ○ 55910 (SWQB - MS)
- ○ 55920 (SWQB - PSRS)
- ○ 55000 (DWB -
- ○ 55420 (DWB - non-reg. contaminants)
- ○ 64000 (Individual client fee-for-service)
- ◉ OTHER (enter 5-digit user code) 30115

LAB USE - SAMPLE TEMPERATURE (deg. C):

SAMPLE PRIORITY: (1, 2, 3 - call Lab if 1 or 2) 3

SUBMITTER CODE (3-digit): WSS ID (xxnnnnnnn): FACILITY ID: SITE ID:

FACILITY / WSS NAME:

FACILITY LOCATION (if no WSS complete boxes): County: Bernalillo City: Albuquerque State: NM, or change to: NM

SAMPLING LOCATION: SAN JOSE # 6

DATE COLLECTED (MM-DD-YY): 5-27-10 BY (First Last) Name: TODD KELLY

TIME COLLECTED (HH:MM 24-hr): 1320 Sampler ID #:

SAMPLE INFO CONTACT Phone: 505-830-7968 16 Name if not collector: Todd Kelly

☐ New / Change Address for Submitter ——> Name: U.S. Geological Survey (USGS)

☐ New / Change Address for WSS / Client ——> Address: 5338 Montgomery NE Suite 400

☐ Send an additional report to ——> City: Albuquerque

FIELD DATA AND REMARKS: ○ Non-chlorinated ○ Chlorinated Residual (mg/l): pH: Conductivity (uS/cm): Temperature (deg. C):

Field remarks:

SAMPLING DOCUMENTATION: ☐ NMED monitoring ☐ Compliance ☐ Non-compliance ☐ Split with facility ☐ Grab sample ☐ Composite ☐ Finished water ☐ Raw water ☐ Confirmation ☐ Other Describe: COA NPDES Monitoring

SAMPLE TYPE: ○ Filtered water ○ Non-filtered water ☒ Soil/Sediment ○ Sludge ○ Blood ○ Urine ○ Tissue ○ Saliva ○ Swipe/Smear ○ Other air/liquid/solid Describe:

PRESERVATION: ☒ None ☐ Shipped at < 4 C ☐ HCl added to pH < 2 ☐ HNO_3 added to pH < 2 ☐ H_2SO_4 added to pH < 2 ☐ Asc. acid added ☐ Lab to acidify ☐ NaOH added to pH > 12 ☐ Other Describe:

HM ANALYSES LIST	
OR ANALYSES LIST	759 Polychlorinated Biphenyls - PCBs (EPA 8082)
RC ANALYSES LIST	
WC ANALYSES LIST	
ADDITIONAL ANALYSES	

FOR LAB USE: ☐ Field preservation confirmed ☐ Preserved to pH > 12 at Lab ☐ Preserved to pH < 2 at Lab Date/Initial:

Lab Remarks:

Please use **CHAIN OF CUSTODY FORM** *when requirements mandate*

We, the undersigned, certify that on _____ (Date) at _____ (Time) the sample identified on the container(s) and this form by Request ID number _____ was transferred with evidentiary seal(s) (check applicable box) ○ Not Present ○ Present & Intact ○ Present & Damaged

Released by: _____ (Signature) & Received by: _____ (Signature)

Additional Transfer If Applicable

We, the undersigned, certify that on _____ (Date) at _____ (Time) the sample identified on the container(s) and this form by Request ID number _____ was transferred with evidentiary seal(s) (check applicable box) ○ Not Present ○ Present & Intact ○ Present & Damaged

Released by: _____ (Signature) & Received by: _____ (Signature)

Print Form

Form last modified on 04/16/09

Reset Form

STATE OF NEW MEXICO — DEPARTMENT OF HEALTH

SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700 — 700 Camino de Salud NE
Albuquerque, NM 87196-4700 — (505) 841-2500
ORGANIC CHEMISTRY SECTION (505) 841-2571

☑ REPORT TO CLIENT

Sertil Kanbar
Department of Municipal Development
(Urban Runoffs) Storm Drainage Design
400 Marquette NW, Room 301
Albuquerque NM 87103

☐ SLD COPY

SLD No. OR:	201000947
REQUEST ID No.:	2436041
RECEIVED AT SLD:	5/27/10
USER:	30115
SLD TEST CODE:	759

☐ REPORT TO CLIENT

Todd Kelly
U S Geological Survey
5338 Montgomery Blvd NE
Suite 400
Albuquerque NM 87109

SAMPLE COLLECTION DATE:	5/27/10	TIME:	13:20	COLLECTOR:	KELLY
FACILITY NAME:	SAN JOSE				
SAMPLING LOCATION:	Site #6				
SAMPLE MATRIX:	soil			REPORTING UNITS:	ug/kg (micrograms/kilogram)
LABORATORY COMMENTS:	No Target Analytes were detected in this sample.				

EPA METHOD SW-846 8082 Polychlorinated Biphenyls by GC/ECD.

DATE EXTRACTED:	6/3/2010	7 Days: Within EPA Holding Time
DATE ANALYZED:	6/5/2010	2 Days: Within EPA Analysis Time
SAMPLE AMOUNT (g):	9.93	
PERCENT MOISTURE:	0.8%	
DRY WEIGHT (g):	9.85	

ANALYSIS No. OR:	201000947
SLD BATCH No.:	120
DILUTION FACTOR:	1.02
REQUEST ID No.:	2436041
EXTRACTION TECHNIQUE:	sonication

CAS #	METHOD ANALYTES	CONC. (ug/kg)	QUAL	SDL	MDL
11104-28-2	Aroclor 1221		U	7.6	7.5
11141-16-5	Aroclor 1232		U	8.5	8.4
53469-21-9	Aroclor 1242/1016		U	8.7	8.6
12672-29-6	Aroclor 1248		U	4.6	4.5
11097-69-1	Aroclor 1254		U	4.6	4.5
11096-82-5	Aroclor 1260		U	7.0	6.9
1336-36-3	Polychlorinated Biphenyls (PCBs)		U	8.7	8.6

QC RANGE	METHOD 8082 SURROGATES	CONC. (ug/kg)	RECOVERY	EVAL
35% - 121%	Decachlorobiphenyl (spiked at 100 ug/kg)	76	76 %	normal

ANALYST: Kristin Cochran KC

QC REVIEWED BY: TFC Tim Chapman

DEFINITIONS

CAS# Chemical Abstract Services Number - Unique number to help identify analytes listed by different names
CONC. Concentration (ug/kg) of analyte actually detected in the sample
QUAL Qualifier of analytical results as follows:
- B Analyte was detected in laboratory blank
- J Analyte was detected at a level below which an accurate quantitation can be given (less than the SDL)
- U No analyte was detected above the Sample Detection Limit.

SDL Sample Detection Limit - The lowest concentration which can be differentiated from Zero with 99% confidence taking sample size into account. (SDL = Dilution factor x Method Detection Limit.)
ug/kg Concentration Units - micrograms per kilogram which is equivalent to Parts Per Billion (ppb)

NEW MEXICO DEPARTMENT OF HEALTH

Request ID Label R#72

2436041

One Form Per Sample

CHEMISTRY BUREAU
Scientific Laboratory Division
700 Camino de Salud NE - PO Box 4700
Albuquerque, NM 87196 - 4700
Phone 505 841 2500

ANALYTICAL REQUEST FORM (INTERACTIVE)

Lab Accession # Here

One Form Per Sample

ORGANIC CHEMISTRY
OR1000947

LAB USE ONLY >>> DATE <<<TIME STAMP: 10 MAY 27 PM 2:57

- ○ 55321 (GWB - remediation superfund)
- ○ 55410 (GWB - pollution prevention)
- ○ 55910 (SWQB - MS)
- ○ 55920 (SWQB - PSRS)
- ○ 55000 (DWB -
- ○ 55420 (DWB - non-reg. contaminants)
- ○ 64000 (individual client fee-for-service)
- ◉ OTHER (enter 5-digit user code): 30115

LAB USE - SAMPLE TEMPERATURE (deg. C):

SAMPLE PRIORITY: (1, 2, 3 - call Lab if 1 or 2): 3

SUBMITTER CODE (3-digit): | WSS ID (xxnnnnnnn): | FACILITY ID: | SITE ID:

FACILITY / WSS NAME:

FACILITY LOCATION (if no WSS complete boxes): County: Bernalillo | City: Albuquerque | State: NM, or change to: NM

SAMPLING LOCATION: SAN JOSE # 6

DATE COLLECTED (MM-DD-YY): 5-27-10 | BY (First Last) Name: TODD KELLY

TIME COLLECTED (HH:MM 24-hr): 1340 | Sampler ID #:

SAMPLE INFO CONTACT Phone: 505-830-7968 16 | Name if not collector: Todd Kelly

☐ New / Change Address for Submitter ----------> | Name: U.S. Geological Survey (USGS)

☐ New / Change Address for WSS / Client ----------> | Address: 5338 Montgomery NE Suite 400

☐ Send an additional report to ----------> | City: Albuquerque

FIELD DATA AND REMARKS: ○ Non-chlorinated ○ Chlorinated | Residual (mg/l): | pH: | Conductivity (uS/cm): | Temperature (deg. C):

Field remarks:

SAMPLING DOCUMENTATION: ☐ NMED monitoring ☐ Compliance ☐ Non-compliance ☐ Split with facility ☐ Grab sample ☐ Composite ☐ Finished water ☐ Raw water ☐ Confirmation ☐ Other Describe: COA NPDES Monitoring

SAMPLE TYPE: ○ Filtered water ○ Non-filtered water ☒ Soil/Sediment ○ Sludge ○ Blood ○ Urine ○ Tissue ○ Saliva ○ Swipe/Smear ○ Other air/liquid/solid Describe:

PRESERVATION: ☒ None ☐ Shipped at < 4 C ☐ HCl added to pH < 2 ☐ HNO_3 added to pH < 2 ☐ H_2SO_4 added to pH < 2 ☐ Asc. acid added ☐ Lab to acidify ☐ NaOH added to pH > 12 ☐ Other Describe:

HM ANALYSES LIST	
OR ANALYSES LIST	759 Polychlorinated Biphenyls - PCBs (EPA 8082)
RC ANALYSES LIST	
WC ANALYSES LIST	
ADDITIONAL ANALYSES	

FOR LAB USE: ☐ Field preservation confirmed ☐ Preserved to pH > 12 at Lab ☐ Preserved to pH < 2 at Lab Date/Initial:

Lab Remarks:

Please use **CHAIN OF CUSTODY FORM** *when requirements mandate*

We, the undersigned, certify that on _____ (Date) at _____ (Time) the sample identified on the container(s) and this form by Request ID number _____ was transferred with evidentiary seal(s) (check applicable box) ○ Not Present ○ Present & Intact ○ Present & Damaged

Released by: _____ (Signature) & Received by: _____ (Signature)

Additional Transfer If Applicable

We, the undersigned, certify that on _____ (Date) at _____ (Time) the sample identified on the container(s) and this form by Request ID number _____ was transferred with evidentiary seal(s) (check applicable box) ○ Not Present ○ Present & Intact ○ Present & Damaged

Released by: _____ (Signature) & Received by: _____ (Signature)

Print Form | Form last modified on 04/16/09 | Reset Form

STATE OF NEW MEXICO — DEPARTMENT OF HEALTH

SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700 — 700 Camino de Salud, NE
Albuquerque, NM 87196-4700 — (505) 841-2500
ORGANIC CHEMISTRY SECTION (505) 841-2571

☒ REPORT TO CLIENT

Sertil Kanbar
Department of Municipal Development
(Urban Runoffs) Storm Drainage Design
400 Marquette NW, Room 301
Albuquerque NM 87103

☐ SLD COPY

SLD No.: OR-	201000945
REQUEST ID No.:	2436038
RECEIVED AT SLD:	5/27/10
USER:	30115
SLD TEST CODE:	759

☐ REPORT TO CLIENT

Todd Kelly
U S Geological Survey
5338 Montgomery Blvd NE
Suite 400
Albuquerque NM 87109

SAMPLE COLLECTION: DATE:	5/27/10	TIME:	11:50	COLLECTOR:	KELLY-USGS
FACILITY NAME:	SAN JOSE DRAIN				
SAMPLING LOCATION:	Site #2				
SAMPLE MATRIX:	soil			REPORTING UNITS:	ug/kg (micrograms/kilogram)
LABORATORY COMMENTS:	Target Analytes were detected in this sample. Review the Results Table below.				

EPA METHOD SW-846 8082 Polychlorinated Biphenyls by GC/ECD.

DATE EXTRACTED:	6/3/2010	7 Days: Within EPA Holding Time
DATE ANALYZED:	6/5/2010	2 Days: Within EPA Analysis Time
SAMPLE AMOUNT (g):	7.36	
PERCENT MOISTURE:	27.8%	
DRY WEIGHT (g):	5.31	

ANALYSIS No.: OR-	201000945
SLD BATCH No.:	120
DILUTION FACTOR:	1.88
REQUEST ID No.:	2436038
EXTRACTION TECHNIQUE:	sonication

CAS #	METHOD ANALYTES	CONC. (ug/kg)	QUAL	SDL	MDL
11104-28-2	Aroclor 1221		U	14	7.5
11141-16-5	Aroclor 1232		U	16	8.4
53469-21-9	Aroclor 1242/1016		U	16	8.6
12672-29-6	Aroclor 1248		U	8.5	4.5
11097-69-1	Aroclor 1254		U	8.5	4.5
11096-82-5	Aroclor 1260	130		13	6.9
1336-36-3	Polychlorinated Biphenyls (PCBs)		U	16	8.6

QC RANGE	METHOD 8082 SURROGATES	CONC. (ug/kg)	% RECOVERY	EVAL
35% - 121%	Decachlorobiphenyl (spiked at 100 ug/kg)	77	77 %	normal

ANALYST: Kristin Cochran KC

QC REVIEWED BY: Tim Chapman THC

DEFINITIONS

CAS# Chemical Abstract Services Number - Unique number to help identify analytes listed by different names

CONC. Concentration (ug/kg) of analyte actually detected in the sample

QUAL Qualifier of analytical results as follows:

- B Analyte was detected in laboratory blank
- J Analyte was detected at a level below which an accurate quantitation can be given (less than the SDL)
- U No analyte was detected above the Sample Detection Limit.

SDL Sample Detection Limit - The lowest concentration which can be differentiated from Zero with 99% confidence taking sample size into account. (SDL = Dilution factor x Method Detection Limit.)

ug/kg Concentration Units - micrograms per kilogram which is equivalent to Parts Per Billion (ppb)

NEW MEXICO DEPARTMENT OF HEALTH | **CHEMISTRY BUREAU** | **ANALYTICAL REQUEST FORM (INTERACTIVE)**

Scientific Laboratory Division
700 Camino de Salud NE - PO Box 4700
Albuquerque, NM 87196 - 4700
Phone 505 841 2500

Request ID Label R#72
2436038

One Form Per Sample

Lab Accession # Here
ORGANIC CHEMISTRY
OR1000945

One Form Per Sample

LAB USE>>ONLY 10 MAY 27 PM 2:57 DATE <<<TIME STAMP

- ○ 55321 (GWB - remediation superfund)
- ○ 55410 (GWB - pollution prevention)
- ○ 55910 (SWQB - MS)
- ○ 55920 (SWQB - PSRS)
- ○ 55000 (DWB - SD)
- ○ 55420 (DWB - non-reg. contaminants)
- ○ 64000 (Individual client fee-for-service)
- ◉ OTHER (enter 5-digit user code) 30115

LAB USE - SAMPLE TEMPERATURE (deg. C):

SAMPLE PRIORITY: (1, 2, 3 - call Lab if 1 or 2) 3

SUBMITTER CODE (3-digit): WSS ID (xxnnnnnnn): FACILITY ID: SITE ID:

FACILITY / WSS NAME:

FACILITY LOCATION (if no WSS complete boxes): County: Bernalillo City: Albuquerque State: NM, or change to: NM

SAMPLING LOCATION: SAN JOSE DRAIN #2

DATE COLLECTED (MM-DD-YY): 5-27-10 BY (First Last) Name: Todd Kelly USGS

TIME COLLECTED (HH:MM 24-hr): 1150 Sampler ID #

SAMPLE INFO CONTACT Phone: ~~505-830-7908~~ 7916 Name if not collector: Todd Kelly

☐ New / Change Address for Submitter ——> Name: U.S. Geological Survey (USGS)

☐ New / Change Address for WSS / Client ——> Address: 5338 Montgomery NE Suite 400

☒ Send an additional report to ——> City: Albuquerque

FIELD DATA AND REMARKS: ○ Non-chlorinated ○ Chlorinated Residual (mg/l): pH: Conductivity (uS/cm): Temperature (deg. C):

Field remarks:

SAMPLING DOCUMENTATION: ☐ NMED monitoring ☐ Compliance ☐ Non-compliance ☐ Split with facility ☐ Grab sample ☐ Composite ☐ Finished water ☐ Raw water ☐ Confirmation ☐ Other Describe: COA NPDES Monitoring

SAMPLE TYPE: ○ Filtered water ○ Non-filtered water ☒ Soil/Sediment ○ Sludge ○ Blood ○ Urine ○ Tissue ○ Saliva ○ Swipe/Smear ○ Other air/liquid/solid Describe:

PRESERVATION: ☒ None ☐ Shipped at < 4 C ☐ HCl added to pH < 2 ☐ HNO_3 added to pH < 2 ☐ H_2SO_4 added to pH < 2 ☐ Asc. acid added ☐ Lab to acidify ☐ NaOH added to pH > 12 ☐ Other Describe:

HM ANALYSES LIST	
OR ANALYSES LIST	759 Polychlorinated Biphenyls - PCBs (EPA 8082)
RC ANALYSES LIST	
WC ANALYSES LIST	
ADDITIONAL ANALYSES	

FOR LAB USE: ☐ Field preservation confirmed ☐ Preserved to pH > 12 at Lab ☐ Preserved to pH < 2 at Lab Date/Initial:

Lab Remarks:

Please use **CHAIN OF CUSTODY FORM** *when requirements mandate*

We, the undersigned, certify that on _____ (Date) at _____ (Time) the sample identified on the container(s) and this form by Request ID number _____ was transferred with evidentiary seal(s) (check applicable box) ○ Not Present ○ Present & Intact ○ Present & Damaged

Released by: _____ (Signature) & Received by: _____ (Signature)

Additional Transfer If Applicable

We, the undersigned, certify that on _____ (Date) at _____ (Time) the sample identified on the container(s) and this form by Request ID number _____ was transferred with evidentiary seal(s) (check applicable box) ○ Not Present ○ Present & Intact ○ Present & Damaged

Released by: _____ (Signature) & Received by: _____ (Signature)

Print Form | Form last modified on 04/16/09 | Reset Form

STATE OF NEW MEXICO — DEPARTMENT OF HEALTH

SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700 — 700 Camino de Salud, NE
Albuquerque, NM 87196-4700 — (505) 841-2500
ORGANIC CHEMISTRY SECTION (505) 841-267

☒ REPORT TO CLIENT

Sertil Kanbar
Department of Municipal Development
(Urban Runoffs) Storm Drainage Design
400 Marquette NW, Room 301
Albuquerque NM 87103

☐ SLD COPY

SLD No. OR-	201000946
REQUEST ID No.	2436039
RECEIVED AT SLD:	5/27/10
USER:	30115
SLD TEST CODE:	759

☐ REPORT TO CLIENT

Todd Kelly
U S Geological Survey
5338 Montgomery Blvd NE
Suite 400
Albuquerque NM 87109

SAMPLE COLLECTION: DATE:	5/27/10	TIME:	12:25	COLLECTOR:	KELLY-USGS
FACILITY NAME:	SAN JOSE DRAIN				
SAMPLING LOCATION:	Site #3				
SAMPLE MATRIX:	soil			REPORTING UNITS:	ug/kg (micrograms/kilogram)
LABORATORY COMMENTS:	Target Analytes were detected in this sample. Review the Results Table below.				

EPA METHOD SW-846 8082 Polychlorinated Biphenyls by GC/ECD.

DATE EXTRACTED:	6/3/2010	7 Days: Within EPA Holding Time
DATE ANALYZED:	6/5/2010	2 Days: Within EPA Analysis Time
SAMPLE AMOUNT (g):	10.6	
PERCENT MOISTURE:	2.9%	
DRY WEIGHT (g):	10.29	

ANALYSIS No. OR-	201000946
SLD BATCH No.:	120
DILUTION FACTOR:	0.97
REQUEST ID No.:	2436039
EXTRACTION TECHNIQUE:	sonication

CAS #	METHOD ANALYTES	CONC (ug/kg)	QUAL	SDL	MDL
11104-28-2	Aroclor 1221		U	7.3	7.5
11141-16-5	Aroclor 1232		U	8.2	8.4
53469-21-9	Aroclor 1242/1016		U	8.4	8.6
12672-29-6	Aroclor 1248		U	4.4	4.5
11097-69-1	Aroclor 1254		U	4.4	4.5
11096-82-5	Aroclor 1260	58		6.7	6.9
1336-36-3	Polychlorinated Biphenyls (PCBs)		U	8.4	8.6

QC RANGE	METHOD 8082 SURROGATES	CONC (ug/kg)	RECOVERY	EVAL
35% - 121%	Decachlorobiphenyl (spiked at 100 ug/kg)	69	69 %	normal

ANALYST: Kristin Cochran KC

QC REVIEWED BY: TMC Tim Chapman

DEFINITIONS

CAS# Chemical Abstract Services Number - Unique number to help identify analytes listed by different names
CONC. Concentration (ug/kg) of analyte actually detected in the sample
QUAL Qualifier of analytical results as follows:
- B Analyte was detected in laboratory blank
- J Analyte was detected at a level below which an accurate quantitation can be given (less than the SDL)
- U No analyte was detected above the Sample Detection Limit.

SDL Sample Detection Limit - The lowest concentration which can be differentiated from Zero with 99% confidence taking sample size into account. (SDL = Dilution factor x Method Detection Limit.)
ug/kg Concentration Units - micrograms per kilogram which is equivalent to Parts Per Billion (ppb)

NEW MEXICO DEPARTMENT OF HEALTH | **CHEMISTRY BUREAU** | **ANALYTICAL REQUEST FORM (INTERACTIVE)**

Scientific Laboratory Division
700 Camino de Salud NE - PO Box 4700
Albuquerque, NM 87196 - 4700
Phone 505 841 2500

Request ID # Here
Request ID Label R#72
2436039

One Form Per Sample

Lab Accession # Here
ORGANIC CHEMISTRY
OR1000946

One Form Per Sample

LAB USE>>> ONLY 10 MAY 27 PM 2:57 <<<TIME STAMP DATE

- ○ 55321 (GWB - remediation superfund)
- ○ 55410 (GWB - pollution prevention)
- ○ 55910 (SWQB - MS)
- ○ 55920 (SWQB - PSRS)
- ○ 55000 (DWB - SDWA - fee-for-service)
- ○ 55420 (DWB - non-reg. contaminants)
- ○ 64000 (Individual client fee-for-service)
- ◉ OTHER (enter 5-digit user code) 30115

LAB USE - SAMPLE TEMPERATURE (deg. C):

SAMPLE PRIORITY: (1, 2, 3 - call Lab if 1 or 2) 3

SUBMITTER CODE (3-digit): WSS ID (xxnnnnnnn): FACILITY ID: SITE ID:

FACILITY / WSS NAME:

FACILITY LOCATION (if no WSS complete boxes): County: Bernalillo City: Albuquerque State: NM, or change to: NM

SAMPLING LOCATION: SAN JOSE DRAIN SITE #3

DATE COLLECTED (MM-DD-YY): 5-27-2010 BY (First Last) Name: Todd Kelly - USGS

TIME COLLECTED (HH:MM 24-hr): 1225 Sampler ID #

SAMPLE INFO CONTACT Phone: 505-830-7968 Name if not collector: Todd Kelly

☐ New / Change Address for Submitter ----------> Name: U.S. Geological Survey (USGS)

☐ New / Change Address for WSS / Client ----------> Address: 5338 Montgomery NE Suite 400

☒ Send an additional report to ----------> City: Albuquerque

FIELD DATA AND REMARKS ○ Non-chlorinated ○ Chlorinated Residual (mg/l): pH: Conductivity (uS/cm): Temperature (deg. C):

Field remarks:

SAMPLING DOCUMENTATION ☐ NMED monitoring ☐ Compliance ☐ Non-compliance ☐ Split with facility ☐ Grab sample ☐ Composite

☐ Finished water ☐ Raw water ☐ Confirmation ☐ Other Describe: COA NPDES Monitoring

SAMPLE TYPE ○ Filtered water ○ Non-filtered water ☒ Soil/Sediment ○ Sludge ○ Blood ○ Urine ○ Tissue ○ Saliva ○ Swipe/Smear

○ Other air/liquid/solid Describe:

PRESERVATION ☒ None ☐ Shipped at < 4 C ☐ HCl added to pH < 2 ☐ HNO_3 added to pH < 2 ☐ H_2SO_4 added to pH < 2 ☐ Asc. acid added

☐ Lab to acidify ☐ NaOH added to pH > 12 ☐ Other Describe:

HM ANALYSES LIST	
OR ANALYSES LIST	759 Polychlorinated Biphenyls - PCBs (EPA 8082)
RC ANALYSES LIST	
WC ANALYSES LIST	
ADDITIONAL ANALYSES	

FOR LAB USE ☐ Field preservation confirmed ☐ Preserved to pH > 12 at Lab ☐ Preserved to pH < 2 at Lab Date/Initial:

Lab Remarks:

Please use **CHAIN OF CUSTODY FORM** *when requirements mandate*

We, the undersigned, certify that on _____ (Date) at _____ (Time) the sample identified on the container(s) and this form by Request ID number _____ was transferred with evidentiary seal(s) (check applicable box) ○ Not Present ○ Present & Intact ○ Present & Damaged

Released by: _____ (Signature) & Received by: _____ (Signature)

Additional Transfer If Applicable

We, the undersigned, certify that on _____ (Date) at _____ (Time) the sample identified on the container(s) and this form by Request ID number _____ was transferred with evidentiary seal(s) (check applicable box) ○ Not Present ○ Present & Intact ○ Present & Damaged

Released by: _____ (Signature) & Received by: _____ (Signature)

Print Form

Form last modified on 04/16/09

Reset Form

STATE OF NEW MEXICO — DEPARTMENT OF HEALTH

SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700 — 1 700 Camino de Salud NE
Albuquerque, NM 87196-4700 — (505) 841-2500
ORGANIC CHEMISTRY SECTION (505) 841-2577

☑ REPORT TO CLIENT

Sertil Kanbar
Department of Municipal Development
(Urban Runoffs) Storm Drainage Design
400 Marquette NW, Room 301
Albuquerque NM 87103

☐ SLD COPY

SLD No. OR-	201000949
REQUEST ID No.	2437855
RECEIVED AT SLD:	5/27/10
USER:	30115
SLD TEST CODE:	759

☐ REPORT TO CLIENT

Todd Kelly
U S Geological Survey
5338 Montgomery Blvd NE
Suite 400
Albuquerque NM 87109

SAMPLE COLLECTION: DATE:	5/27/10	TIME:	12:50	COLLECTOR:	KELLY
FACILITY NAME:	SAN JOSE				
SAMPLING LOCATION:	Site #4				
SAMPLE MATRIX:	soil			REPORTING UNITS:	ug/kg (micrograms/kilogram)
LABORATORY COMMENTS:	Target Analytes were detected in this sample. Review the Results Table below.				

EPA METHOD SW-846 8082 Polychlorinated Biphenyls by GC/ECD.

DATE EXTRACTED:	6/3/2010	7 Days: Within EPA Holding Time
DATE ANALYZED:	6/5/2010	2 Days: Within EPA Analysis Time
SAMPLE AMOUNT (g):	10.13	
PERCENT MOISTURE:	1.9%	
DRY WEIGHT (g):	9.94	

ANALYSIS No. OR-	201000949
SLD BATCH No.	120
DILUTION FACTOR:	1.01
REQUEST ID No.	2437855
EXTRACTION TECHNIQUE:	sonication

CAS#	METHOD ANALYTES	CONC. (ug/kg)	QUAL	SDL	MDL
11104-28-2	Aroclor 1221		U	7.5	7.5
11141-16-5	Aroclor 1232		U	8.5	8.4
53469-21-9	Aroclor 1242/1016		U	8.7	8.6
12672-29-6	Aroclor 1248		U	4.5	4.5
11097-69-1	Aroclor 1254		U	4.5	4.5
11096-82-5	Aroclor 1260	46		6.9	6.9
1336-36-3	Polychlorinated Biphenyls (PCBs)		U	8.7	8.6

QC RANGE	METHOD 8082 SURROGATES	CONC. (ug/kg)	% RECOVERY	EVAL
35% - 121%	Decachlorobiphenyl (spiked at 100 ug/kg)	79	79 %	normal

ANALYST: Kristin Cochran KC

QC REVIEWED BY: TFC Tim Chapman

DEFINITIONS

CAS# Chemical Abstract Services Number - Unique number to help identify analytes listed by different names
CONC. Concentration (ug/kg) of analyte actually detected in the sample
QUAL Qualifier of analytical results as follows:
- B Analyte was detected in laboratory blank
- J Analyte was detected at a level below which an accurate quantitation can be given (less than the SDL)
- U No analyte was detected above the Sample Detection Limit.

SDL Sample Detection Limit - The lowest concentration which can be differentiated from Zero with 99% confidence taking sample size into account. (SDL = Dilution factor x Method Detection Limit.)
ug/kg Concentration Units - micrograms per kilogram which is equivalent to Parts Per Billion (ppb)

NEW MEXICO DEPARTMENT OF HEALTH | **CHEMISTRY BUREAU** | **ANALYTICAL REQUEST FORM (INTERACTIVE)**

Scientific Laboratory Division
700 Camino de Salud NE - PO Box 4700
Albuquerque, NM 87196 - 4700
Phone 505 841 2500

Request ID Label R#107
2437855

One Form Per Sample

Lab Accession # Here
ORGANIC CHEMISTRY
OR1000949

One Form Per Sample

LAB USE>>> ONLY: 10 MAY 27 PM 2:57 DATE <<<TIME STAMP

- ○ 55321 (GWB - remediation superfund)
- ○ 55410 (GWB - pollution prevention)
- ○ 55910 (SWQB - MS)
- ○ 55920 (SWQB - PSRS)
- ○ 55000 (DWB - SDWA - fee-for-service)
- ○ 55420 (DWB - non-reg. contaminants)
- ○ 64000 (Individual client fee-for-service)
- ◉ OTHER (enter 5-digit user code): 30115

LAB USE - SAMPLE TEMPERATURE (deg. C):

SAMPLE PRIORITY: (1, 2, 3 - call Lab if 1 or 2): 3

SUBMITTER CODE (3-digit): | WSS ID (xxnnnnnn): | FACILITY ID: | SITE ID:

FACILITY / WSS NAME:

FACILITY LOCATION (if no WSS complete boxes): County: Bernalillo | City: Albuquerque | State: NM, or change to: NM

SAMPLING LOCATION: SAN JOSE #4

DATE COLLECTED (MM-DD-YY): 5-27-10 | BY (First Last) Name: TODD KELLY

TIME COLLECTED (HH:MM 24-hr): 1250 | Sampler ID #:

SAMPLE INFO CONTACT Phone: 505-830-7966 16 | Name if not collector: Todd Kelly

☐ New / Change Address for Submitter ——> Name: U.S. Geological Survey (USGS)

☐ New / Change Address for WSS / Client ——> Address: 5338 Montgomery NE Suite 400

☒ Send an additional report to ——> City: Albuquerque

FIELD DATA AND REMARKS: ○ Non-chlorinated ○ Chlorinated Residual (mg/l): pH: Conductivity (uS/cm): Temperature (deg. C):

Field remarks:

SAMPLING DOCUMENTATION: ☐ NMED monitoring ☐ Compliance ☐ Non-compliance ☐ Split with facility ☐ Grab sample ☐ Composite ☐ Finished water ☐ Raw water ☐ Confirmation ☐ Other Describe: COA NPDES Monitoring

SAMPLE TYPE: ○ Filtered water ○ Non-filtered water ☒ Soil/Sediment ○ Sludge ○ Blood ○ Urine ○ Tissue ○ Saliva ○ Swipe/Smear ○ Other air/liquid/solid Describe:

PRESERVATION: ☒ None ☐ Shipped at < 4 C ☐ HCl added to pH < 2 ☐ HNO_3 added to pH < 2 ☐ H_2SO_4 added to pH < 2 ☐ Asc. acid added ☐ Lab to acidify ☐ NaOH added to pH > 12 ☐ Other Describe:

HM ANALYSES LIST:

OR ANALYSES LIST: 759 Polychlorinated Biphenyls - PCBs (EPA 8082)

RC ANALYSES LIST:

WC ANALYSES LIST:

ADDITIONAL ANALYSES:

FOR LAB USE: ☐ Field preservation confirmed ☐ Preserved to pH > 12 at Lab ☐ Preserved to pH < 2 at Lab Date/Initial:

Lab Remarks:

Please use **CHAIN OF CUSTODY FORM** *when requirements mandate*

We, the undersigned, certify that on _____ (Date) at _____ (Time) the sample identified on the container(s) and this form by Request ID number _____ was transferred with evidentiary seal(s) (check applicable box) ○ Not Present ○ Present & Intact ○ Present & Damaged

Released by: _____ (Signature) & Received by: _____ (Signature)

Additional Transfer If Applicable

We, the undersigned, certify that on _____ (Date) at _____ (Time) the sample identified on the container(s) and this form by Request ID number _____ was transferred with evidentiary seal(s) (check applicable box) ○ Not Present ○ Present & Intact ○ Present & Damaged

Released by: _____ (Signature) & Received by: _____ (Signature)

Print Form | Form last modified on 04/16/09 | Reset Form

STATE OF NEW MEXICO — DEPARTMENT OF HEALTH

SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700 — 700 Camino de Salud NE
Albuquerque, NM 87196-4700 — (505) 841-2500
ORGANIC CHEMISTRY SECTION (505) 841-2574

☑ REPORT TO CLIENT

Sertil Kanbar
Department of Municipal Development
(Urban Runoffs) Storm Drainage Design
400 Marquette NW, Room 301
Albuquerque NM 87103

☐ SLD COPY

SLD No. OR:	201000948
REQUEST ID No.:	2436040
RECEIVED AT SLD:	5/27/10
USER:	30115
SLD TEST CODE:	759

☐ REPORT TO CLIENT

Todd Kelly
U S Geological Survey
5338 Montgomery Blvd NE
Suite 400
Albuquerque NM 87109

SAMPLE COLLECTION: DATE:	5/27/10	TIME:	13:10	COLLECTOR:	KELLY
FACILITY NAME:	SAN JOSE				
SAMPLING LOCATION:	Site #5				
SAMPLE MATRIX:	soil			REPORTING UNITS:	ug/kg (micrograms/liter)
LABORATORY COMMENTS:	No Target Analytes were detected in this sample.				

EPA METHOD SW-846 8082 Polychlorinated Biphenyls by GC/ECD.

DATE EXTRACTED:	6/3/2010	7 Days: Within EPA Holding Time
DATE ANALYZED:	6/5/2010	2 Days: Within EPA Analysis Time
SAMPLE VOL (ml):	9.98	
SAMPLE pH:	6.2%	
TEMP. RECEIVED (°C):	9.36	

ANALYSIS No. OR:	201000948
SLD BATCH No.:	120
DILUTION FACTOR:	1.07
REQUEST ID No.:	2436040
EXTRACTION TECHNIQUE:	sonication

CAS	METHOD ANALYTES	CONC. (ug/kg)	QUAL	SDL	MDL
11104-28-2	Aroclor 1221		U	8.0	7.5
11141-16-5	Aroclor 1232		U	9.0	8.4
53469-21-9	Aroclor 1242/1016		U	9.2	8.6
12672-29-6	Aroclor 1248		U	4.8	4.5
11097-69-1	Aroclor 1254		U	4.8	4.5
11096-82-5	Aroclor 1260		U	7.4	6.9
1336-36-3	Polychlorinated Biphenyls (PCBs)		U	9.2	8.6

QC RANGE	METHOD 8082 SURROGATES	CONC. (ug/kg)	RECOVERY	EVAL
35% - 121%	Decachlorobiphenyl (spiked at 100 ug/kg)	82	82 %	normal

ANALYST: Kristin Cochran KC

QC REVIEWED BY: THC Tim Chapman

DEFINITIONS

CAS# Chemical Abstract Services Number - Unique number to help identify analytes listed by different names
CONC. Concentration (ug/kg) of analyte actually detected in the sample
QUAL Qualifier of analytical results as follows:
- B Analyte was detected in laboratory blank
- J Analyte was detected at a level below which an accurate quantitation can be given (less than the SDL)
- U No analyte was detected above the Sample Detection Limit.

SDL Sample Detection Limit - The lowest concentration which can be differentiated from Zero with 99% confidence taking sample size into account. (SDL = Dilution factor x Method Detection Limit.)
ug/kg Concentration Units - micrograms per kilogram which is equivalent to Parts Per Billion (ppb)

NEW MEXICO DEPARTMENT OF HEALTH | **CHEMISTRY BUREAU** | **ANALYTICAL REQUEST FORM (INTERACTIVE)**

Scientific Laboratory Division
700 Camino de Salud NE - PO Box 4700
Albuquerque, NM 87196 - 4700
Phone 505 841 2500

Request ID Label R#72
2436040

One Form Per Sample

ORGANIC CHEMISTRY
OR1000948

One Form Per Sample

LAB USE ONLY >>> 10 MAY 27 PM 2:57 DATE <<<TIME STAMP

- ○ 55321 (GWB - remediation superfund)
- ○ 55410 (GWB - pollution prevention)
- ○ 55910 (SWQB - MS)
- ○ 55920 (SWQB - PSRS)
- ○ 55000 (DWB - SDWA - fee-for-service)
- ○ 55420 (DWB - non-reg. contaminants)
- ○ 64000 (Individual client fee-for-service)
- ◉ OTHER (enter 5-digit user code) 30115

LAB USE - SAMPLE TEMPERATURE (deg. C):

SAMPLE PRIORITY: (1, 2, 3 - call Lab if 1 or 2) 3

SUBMITTER CODE (3-digit): | WSS ID (xxnnnnnnn): | FACILITY ID: | SITE ID:

FACILITY / WSS NAME:

FACILITY LOCATION (if no WSS complete boxes): County: Bernalillo | City: Albuquerque | State: NM, or change to: NM

SAMPLING LOCATION: SAN JOSE # 5

DATE COLLECTED (MM-DD-YY): 5-27-10 | BY (First Last) Name: TODD KELLY

TIME COLLECTED (HH:MM 24-hr): 1310 | Sampler ID #:

SAMPLE INFO CONTACT Phone: 505-830-7966 16 | Name if not collector: Todd Kelly

☐ New / Change Address for Submitter ——> Name: U.S. Geological Survey (USGS)

☐ New / Change Address for WSS / Client ——> Address: 5338 Montgomery NE Suite 400

☒ Send an additional report to ——> City: Albuquerque

FIELD DATA AND REMARKS: ○ Non-chlorinated ○ Chlorinated Residual (mg/l): pH: Conductivity (uS/cm): Temperature (deg. C):

Field remarks:

SAMPLING DOCUMENTATION: ☐ NMED monitoring ☐ Compliance ☐ Non-compliance ☐ Split with facility ☐ Grab sample ☐ Composite ☐ Finished water ☐ Raw water ☐ Confirmation ☐ Other Describe: COA NPDES Monitoring

SAMPLE TYPE: ○ Filtered water ○ Non-filtered water ☒ Soil/Sediment ○ Sludge ○ Blood ○ Urine ○ Tissue ○ Saliva ○ Swipe/Smear ○ Other air/liquid/solid Describe:

PRESERVATION: ☒ None ☐ Shipped at ≤ 4 C ☐ HCl added to pH < 2 ☐ HNO_3 added to pH < 2 ☐ H_2SO_4 added to pH < 2 ☐ Asc. acid added ☐ Lab to acidify ☐ NaOH added to pH > 12 ☐ Other Describe:

HM ANALYSES LIST	
OR ANALYSES LIST	759 Polychlorinated Biphenyls - PCBs (EPA 8082)
RC ANALYSES LIST	
WC ANALYSES LIST	
ADDITIONAL ANALYSES	

FOR LAB USE: ☐ Field preservation confirmed ☐ Preserved to pH > 12 at Lab ☐ Preserved to pH < 2 at Lab Date/Initial:

Lab Remarks:

Please use **CHAIN OF CUSTODY FORM** *when requirements mandate*

We, the undersigned, certify that on _____ (Date) at _____ (Time) the sample identified on the container(s) and this form by Request ID number _____ was transferred with evidentiary seal(s) (check applicable box) ○ Not Present ○ Present & Intact ○ Present & Damaged

Released by: _____ (Signature) & Received by: _____ (Signature)

Additional Transfer If Applicable

We, the undersigned, certify that on _____ (Date) at _____ (Time) the sample identified on the container(s) and this form by Request ID number _____ was transferred with evidentiary seal(s) (check applicable box) ○ Not Present ○ Present & Intact ○ Present & Damaged

Released by: _____ (Signature) & Received by: _____ (Signature)

Print Form | Form last modified on 04/16/09 | Reset Form

NEW MEXICO
ENVIRONMENT DEPARTMENT

Office of the Secretary

BILL RICHARDSON
Governor
DIANE DENISH
Lieutenant Governor

Harold Runnels Building
1190 Saint Francis Drive (87505)
PO Box 5469, Santa Fe, NM 87502-5469
Phone (505) 827-2855 Fax (505) 827-2836
www.nmenv.state.nm.us

RON CURRY
Secretary
SARAH COTTRELL
Deputy Secretary

April 15, 2010
For Immediate Release

Contact: Marissa Stone Bardino, NMED Communications Director
(505) 827-0314 or (505) 231-0475

Environment Department Finds Elevated Levels of PCBs in the Rio Grande near Albuquerque during Storm Flows

Levels Do Not Pose Immediate Health Threats for Residents

(Santa Fe, N.M.) The New Mexico Environment Department (NMED) released results of a study conducted in 2009 of Rio Grande water quality near the Santa Fe Buckman Direct Diversion and in Albuquerque during storm flow conditions. The study indicates that Los Alamos National Laboratory (LANL) derived contaminants were not found to be influencing water quality at the Buckman Direct Diversion or upstream from the Albuquerque surface water treatment facility inlet during regional storm events.

However, the study indicates that storm water events in the Albuquerque area have the potential to carry concentrations of PCBs into the Rio Grande from the North Diversion Channel watershed that can harm wildlife and humans consuming PCB contaminated fish.

The Albuquerque sampling location was included in the study to answer questions about the potential for LANL contaminants to impact the Rio Grande near Albuquerque's drinking water supply diversion. In 2009, NMED conducted a series of listening sessions throughout the state to help define environmental concerns of citizens. In response to citizens' concerns, NMED collected samples from five Rio Grande locations including the river upstream of the Albuquerque Bernalillo County Water Utility Authority surface water treatment facility inlet. Sample collection reflected conditions representing normal river flow and flow following storm events in which more suspended sediments, and therefore more contaminants associated with sediments, could be present.

Since the focus of the sampling events was river water, it is not known at this time if the contaminants were present in the stormwater itself or if the volume and velocity of the stormwater flow disturbed contaminants already present and bound in sediments.

PCBs measured in water collected from the Rio Grande during high flow stormwater events were below the maximum contaminant level (MCL) established in the EPA standards for drinking water but were above the human health and wildlife habitat criteria for surface waters in New Mexico. The MCL for PCBs in drinking water is derived from determinations of increased cancer risks per million people consuming a specified amount of water per day over a 70-year timeframe. The wildlife habitat criterion is determined based upon health risk to aquatic life living in the surface water. The human health criterion is based upon human consumption of aquatic life that bio-accumulate contaminants over time.

In conjunction with the New Mexico Department of Health and the Department of Game and Fish, NMED publishes fish consumption advisories for the stretch of the Rio Grande between I-25 to the south and US 550 to the north specifically because of PCB contamination. The advisories indicate that white bass from this area should not be consumed, and channel catfish between 14 and 18 inches should not be consumed more than three times per month. Fish advisories may be found on the NMED website at http://www.nmenv.state.nm.us/swqb/advisories/ and also in the New Mexico Department of Game and Fish fishing proclamation.

PCBs belong to a broad family of man-made organic chemicals known as chlorinated hydrocarbons and were manufactured domestically in the United States from 1929 until their manufacture was banned in 1979. They have a range of toxicity and vary in consistency from thin, light colored liquids to yellow or black waxy solids. Due to their non-flammability, chemical stability, high boiling point, and electrical insulating properties, PCBs were used in hundreds of industrial and commercial applications including electrical, heat transfer, and hydraulic equipment; as plasticizers in paints, plastics, and rubber products; in pigments, dyes and carbonless copy paper; and in many other industrial applications.

PCBs are ubiquitous in the environment and can be detected in measureable quantities in nearly everything from precipitation in remote areas to ultra clean laboratory glassware. PCBs cycle between air, water, and soil and can accumulate in the leaves and above-ground parts of plants and food crops. They are also taken up into the bodies of small organisms and fish.

PCBs have low solubility in water and tend to bind to organic matter in sediments with preference for finer grained material (fine sediments as opposed to coarse sediments such as sand). Surface water treatment plants are designed to be especially good at removing sediments from drinking water.

Previous studies conducted since 2003 by local storm water management agencies (AMAFCA, City of Albuquerque, NMDOT and UNM) have included testing for PCBs several times a year at five locations in Albuquerque. Test methods used by NMED and local agencies differ by the minimum detection level of certain contaminants. The test method used by the NMED can measure concentrations low enough to determine whether state surface water standards for wildlife habitat and human health have been met. The NMED continues to coordinate with city, county, and other municipal agencies and entities responsible for water management and protection of human health and the environment to determine the sources of these contaminants and manage their movement and impacts.

For more information please contact Marissa Stone Bardino at (505) 827-0314.

###

3

NEW EDUCATIONAL INITIATIVES

The University of New Mexico

Department of Biology
MSC03 2020
Albuquerque, NM 87131-0001
(505) 277-0758

Bosque Ecosystem Monitoring Program

Science, Education, and Stewardship

BOSQUE SCHOOL
4000 Learning Rd NW
Albuquerque, NM 87120
(505) 898-6388

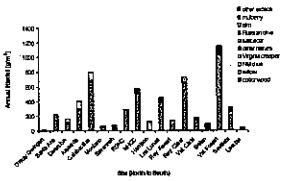
Proposal to:
The Storm Water Team by the
Bosque Ecosystem Monitoring Program (BEMP)

Overview

The Bosque Ecosystem Monitoring Program (BEMP) is a joint project of the University of New Mexico's Biology Department (UNM) and the Black Institute for Environmental Studies at Bosque School (Bosque School). Since 1996 BEMP has collaborated with K-12 students from across NM and their teachers to track long-term change in the Middle Rio Grande riparian forest, or *bosque*. Our high level of confidence in student-collected data underlies the interpretations and conclusions we present in our public reports. (BEMP reports at http://www.bosqueschool.org/BEMP/bemp.htm).

3,500 students per year

UNM student mentors



Technical reports

Research includes water, fire, flood, & climate

BEMP Science

- BEMP scientific protocols are developed to be consistent with agency guidelines
- A tested and effective quality assurance program is supervised by UNM Biology
- BEMP considers overall bosque health and the effects of fire, flood, and restoration through climate, groundwater abundance and quality, plant composition and distribution, biological diversity, and other studies

BEMP Findings

- BEMP findings are non-proprietary
- Both raw data and analysis are available on the web and by request
- BEMP data are requested and used by state, local, tribal, & federal resource managers including Interstate Stream Commission, Middle Rio Grande Conservancy District, and US Departments of Interior and Defense agencies
- BEMP data used in Upper Rio Grande Water Operations Model
- Majority of BEMP sites have pre and post treatment data for at least one major variable such as flooding or fire
- BEMP findings inform multi-million dollar management decisions. We answer the question, "Did it work?" and help to determine the effectiveness of phreatophyte control, bosque restoration, fuel reduction, and other projects

BEMP Program Reach

- Over 3,500 students from all three Congressional Districts and dozens of school participate in BEMP each year
- Presently there are 25 BEMP field sites from Ohkay Owingeh (San Juan) Pueblo to Socorro
- Three BEMP sites are on tribal property, one is on federal land, 24 sites are located on Middle Rio Grande Conservancy affiliated lands
- BEMP sites above and below San Juan Chama DWP Dam; with 6 sites bracketing the dam
- At river flows between 2,500 and 4,000 CFS BEMP sites include 3 overbank flooded, 4 seep flooded, and 1 habitat restoration backwater site

BEMP Data Sets

- Depth to groundwater (monthly all wells all sites, and every 15 minutes at 10 sites)
- Ditch/drain water level (monthly)
- Litter-fall biomass by species, reproductive-fall by species, and wood-fall (monthly)
- Precipitation (monthly)
- Temperature: air and subsurface (every 30 minutes)
- Woody debris and fire fuel loading (annual)
- Ground water, ditch water, and river water quality (multiple times per year)
- Surface active arthropods (three times per year)
- Vegetation cover by amount and species (annual)
- Cottonwood DBH and sex (periodic)

Proposal for a Public Outreach and Science Education Effort Related to Rio Grande Storm Water Flows

This proposal would involve a public outreach and science education effort related to storm water flows and river ecosystem health. We would build upon our experience of placing tens of thousands of students into the Rio Grande's riparian forest to conduct ecological monitoring to create a program where K-12 students actively learn how the health of the Rio Grande is directly tied to the health of its watershed. Particular emphasis would be placed on understanding the health risks of elevated *Escherichia coli* levels in the Rio Grande and how students can take action to reduce that problem.

This proposal would use the existing BEMP network to develop a science education program suitable for use by K-12 students regarding watershed health, particularly related to storm water flows and non-point pollution into existing arroyo and flood control systems. Within this one year, pilot program BEMP would:

1. Identify and recruit K-12 classes from ≥three different schools to participate in the pilot test of this program.
2. Develop and present classroom orientations regarding water quality issues associated with storm water flows
3. Develop, test, and implement protocols for K-12 students to safely monitor watershed/arroyo health with particular emphasis on canine fecal matter as a source of *Escherichia coli* levels in the Rio Grande.
4. Simultaneous to the student education effort BEMP will also conduct a weekly monitoring program of *Escherichia coli* levels in the Rio Grande at four sites (US 550 bridge in Bernalillo, the Alameda and Montano Bridges within Albuquerque, and a fourth site south of the Southside Water Reclamation Plant and north of Isleta Pueblo). All water quality *E. coli* work will be compliant with New Mexico Environment Department, Surface Water Quality Bureau monitoring and assessment protocols.

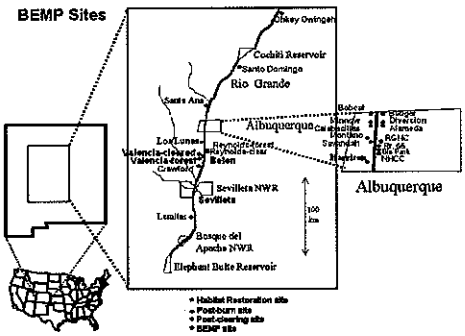
The goal of this effort will be to create and pilot test a program to help students become stewards of their local arroyos and learn how their care of their local watershed and arroyos leads to a healthier Rio Grande. All deliverables will be non-proprietary and consist of: an education curriculum related to improving storm water quality including how students can participate in related citizen science monitoring; a monthly submission of QA/QC data of weekly *E. coli* levels in the Rio Grande at four monitoring sites; incorporation of any developed protocols, educational materials, and water quality findings on BEMP's web site; and a December 2010 report summarizing the program's accomplishments, findings, and participant numbers.

Proposed Budget for Storm Water Education Program – With Billing Quarterly for Work Completed

Activity	Activity summary:	Request
BEMP Director Ph.D.	Supervision of all water quality monitoring protocols and activities including data management, quality control, and reporting. $35/hour x 1 hour per week x 52 weeks	$ 1,820
BEMP Educator MS/MA	Development of education and outreach program, coordination of student monitoring protocols. $30/hour x 16 hours per month x 12 months	$ 5,760
BEMP Ed Asst	Work with participating classrooms $15/hour x 4 classes x 4 visits x 8hr/visit & prep	$ 1,920
BEMP Field Tech BS or MS	Conduct weekly monitoring of *E. coli* levels at 4 locations in the Rio Grande and all associated lab, field, and data entry tasks $25/hour x 10 hour per week x 52 weeks	$13,000
BEMP Field Assistant	Assist with field monitoring of E. coli levels at 4 locations in the Rio Grande $15 hour x 6 hour per week x 52 weeks	$ 4,680
Lab fees	Lab work & supplies of *E. coli* water samples. $80/sample x 4 samples/week x 52 weeks	$16,640
Education materials	Hard copy of protocols, classroom handouts, field supplies for watershed monitoring	$ 500
Mileage	Mileage to and from UNM and 4 sites $00.50/mile x 65 miles x 52 weeks	$ 1,690
Storm event	If staff available: water monitoring of E. coli levels @ up to 5 storm events at 4 locations	$ 3,500
Subtotal	Sub TOTAL	$49,510
Overhead	5% of total project for administrative overhead and project supervision	$ 2,475
Total	**To bill quarterly up to an amount not to exceed**	$51,985

For more information contact:
Daniel Shaw
BEMP Co-Director
Bosque School
4000 Learning Road NW
Albuquerque, NM 87120
(505) 898-6388

dshaw@bosqueschool.org



COONEY, WATSON & ASSOCIATES, INC.
2201 San Pedro NE, Building 2, Suite 100 • Albuquerque, NM 87110
CONTACT: Patti Watson (505) 293-2000 • 1-800-687-3417
pattiw@cooneywatson.com

FOR IMMEDIATE RELEASE – April 8, 2010

MID RIO GRANDE STORMWATER QUALITY TEAM ANNOUNCES PARTNERSHIP FOR ON ADDITIONAL MONITORING OF RIO GRANDE AND EDUCATION ON WATER QUALITY

ALBUQUERQUE/RIO RANCHO – The **Mid Rio Grande Stormwater Quality Team (MRGSQT)**, a multi-agency coalition dedicated to educating individuals and businesses on preventing stormwater pollution in order to protect and improve the quality of the Rio Grande, has partnered with the Bosque Ecosystem Monitoring Program (BEMP) to monitor four sites on the Rio Grande and to provide educational activities on water quality relating to watershed management in Bernalillo and Sandoval counties.

The monitoring sites will be located along the Rio Grande in Bernalillo and Sandoval counties adjacent to existing BEMP sites, according to Daniel Shaw, BEMP Co-Director. He said the sites would probably be at the U.S. 550 Bridge in Bernalillo, the Alameda and Montano Bridges within Albuquerque, and south of the Tijeras Arroyo and north of Isleta Pueblo in Albuquerque. Weekly monitoring will measure levels of the bacteria known as ***Escherichia coli***, (E. coli) in the river. Although this bacteria occurs naturally in the Rio Grande, its levels can also be temporarily elevated after a storm if animal wastes are washed into the river. For example, storm sewers in the Albuquerque and Rio Rancho areas can potentially carry E. coli from rain contact with wastes from domestic animals, wildlife, birds, pets and even humans into the Rio Grande.

"As our area grows, more waste is created. For example, we know that there are at least 43,000 licensed dogs in the City of Albuquerque alone that create more than 20 tons of dog waste a day. That waste can end up in the river if it's left in a yard or not disposed of properly in household trash containers," explained Roland Penttila, an MRGSQT member and storm drain design manager for the City of Albuquerque.

Consistent monitoring of the Rio Grande for E. coli will help give the MRGSQT more reliable data on the bacterial pollutants that may be reaching the river through our area's stormwater system, which contains approximately 16,100 storm inlets leading to 722 miles of storm pipes which lead to the Rio Grande.

(MORE)

Mid Rio Grande Stormwater Quality Team Announces Partnership—Only add

Water samples will be collected weekly by a BEMP team trained and supervised by experts at the University of New Mexico. Students from various elementary, middle or high schools will learn hands-on as they participate on the BEMP teams. The BEMP program will provide education on stormwater quality and how it affects the river's ecosystem to several thousand students in grades K-12.

Vern Hershberger, MRGSQT chair and environmental health manager at the University of New Mexico, believes teaming with BEMP is a "great fit" with the public education and outreach goals the Environmental Protection Agency (EPA) has for MRGSQT members. "Keep the Rio Grand is the MRGSQT's motto. We need everyone's help and a new awareness if we are to succeed in preventing pollution from entering our stormwater system. We're excited to be working with such a well-established BEMP program. We look forward to the data we'll receive as well as the opportunity for local students to learn about the importance of stormwater quality," Hershberger said.

The Bosque Ecosystem Monitoring Program (BEMP) is a joint project of the University of New Mexico's Biology Department (UNM) and the Black Institute for Environmental Studies at Bosque School. Since 1996, BEMP has collaborated with kindergarten through 12th grade students from across New Mexico and their teachers to track long-term change in the Middle Rio Grande Bosque. BEMP reports are available at www.bosqueschool.org/BEMP.

The Mid Rio Grande Stormwater Quality Team was formed as a multi-agency coalition in 2004 to educate and reach out to residents about how they can reduce stormwater pollution to help "Keep the Rio Grand." The team includes the Albuquerque Metropolitan Arroyo Flood Control Authority (AMAFCA), Bernalillo County, the City of Albuquerque, the Ciudad Soil and Water Conservation District, the Southern Sandoval County Arroyo Flood Control Authority (SSCAFCA), the University of New Mexico and the New Mexico Department of Transportation. More information about the Mid Rio Grande Stormwater Quality Team is available at www.keeptheriogrande.com.

###