HIP - __122__

GENERAL CORRESPONDENCE

YEAR(S): 2013 to Present

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary-Designate

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

Jami Bailey, Division Director
Oil Conservation Division

August 29, 2013

Ms. Shiver Nolan
Enterprise Products Operating LLC
P.O. Box 4324
Houston, Texas 77210

Re: Hydrostatic Test Discharge Permit
Permit: HIP-122
Enterprise Products Operating, LLC
Western Expansion Pipeline III, Segment 3
Locations: Unit N of Section 27, Township 10 North, Range 8 East, NMPM, Santa Fe County, New Mexico

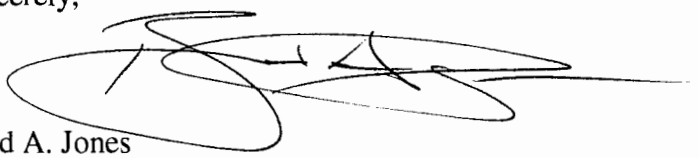
Dear Ms. Nolan:

The New Mexico Oil Conservation Division (OCD) has received Enterprise Products Operating LLC's (Enterprise) notice of intent, dated August 29, 2013, for authorization to discharge approximately 850,000 gallons of wastewater generated from a hydrostatic test of a new 16-inch to 20-inch diameter natural gas gathering system transmission pipeline approximately 30.4 miles (179,400 feet) long, located approximately 4 miles northwest of Moriarty, New Mexico. The proposed discharge/collection /retention location is within Enterprise's pipeline easement right-of-way and the discharge is proposed to flow onto approximately 90,625 square feet of private property north and adjacent to Enterprise's pipeline easement right-of-way, both located within Unit N of Section 27, Township 10 North, Range 8 East, NMPM, Santa Fe County, New Mexico. The submittal provided the required information in order to deem the application "administratively" complete. OCD approves the Mountain View Telegraph as the newspaper of general circulation for the published notice and the discharge and/or collection location (within Enterprise's pipeline easement right-of-way) and the post office in Moriarty, New Mexico as proposed posting locations.

Therefore, the July 2006 New Mexico Water Quality Control Commission (WQCC) regulations notice requirements (20.6.2.3108 NMAC) must be satisfied and demonstrated to the OCD. The hydrostatic test discharge event shall not be initiated until Enterprise's and OCD's notice periods pass, the permit is issued, and the additional permit fee is paid, if applicable.

If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3487 or brad.a.jones@state.nm.us.

Sincerely,



Brad A. Jones
Environmental Engineer

BAJ/baj

cc: OCD District IV Office, Santa Fe
Mr. James White, Enterprise Products Operating, LLC, Houston, TX 77210-4324
Ms. Runell Seale, Enterprise Products Operating, LLC, Farmington, NM 87401

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of Check No. 689075 dated 7/26/13

or cash received on 8/29/13 in the amount of $ 700.00

from KLEINFELDER WEST, INC.

for HIP-122

Submitted by: BRAD JONES Date: 8/29/13

Submitted to ASD by: Lupe Sherman Date: 8/30/13

Received in ASD by: _____ Date: _____

Filing Fee ✓ New Facility: _____ Renewal: _____

Modification _____ Other ✓ PERMIT FEE

Organization Code 521.07 Applicable FY 14

To be deposited in the Water Quality Management Fund.

Full Payment _____ or Annual Increment _____

New Mexico Environment Department Revenue Transmittal

		Description	Fund	CES	DFA Org.	DFA Acct.	ED Org.	ED Acct.	Amount	
	1	CY Reimbursement Project _____ Tax	064	01						1
	2	Gross Receipt Tax	064	01	2329	900000	2329134			2
	3	Air Quality Title V	092	13	1690	900000	4169134			3
	4	PRP Prepayments	248	14	9690	900000	4969014			4
	5	Climax Chemical Co.	248	14	9690	900000	4969015			5
	6	Circle K Reimbursements	248	14	9690	900000	4969248			6
	7	Hazardous Waste Permits	339	27	1690	900000	4169027			7
	8	Hazardous Waste Annual Generator Fees	339	27	1690	900000	4169339			8
	9	Water Quality - Drinking Water	340	28	1690	900000	4169028			9
	10	✓ Water Quality - Oil Conservation Division	341	29	2329	900000	2329029		700.00	10
	11	Water Quality - GW Discharge Permit	341	29	1690	900000	4169029			11
	12	Air Quality Permits	631	31	1690	900000	4169031			12
	13	Payments under Protest	651	33	2919	900000	2919033			13
*	14	Xerox Copies	652	34	2349	900000	2349001			14
	15	Ground Water Penalties	652	34	2349	900000	2349002			15
	16	Witness Fees	652	34	2349	900000	2349003			16
	17	Air Quality Penalities	652	34	2349	900000	2349004			17
	18	OSHA Penalties	652	34	2349	900000	2349005			18
	19	Prior Year Reimbursement	652	34	2349	900000	2349006			19
	20	Surface Water Quality Certification	652	34	2349	900000	2349009			20
	21	Jury Duty	652	34	2349	900000	2349012			21
	22	CY Reimbursements (i.e.: telephone)	652	34	2349	900000	2349014			22
*	23	UST Owners List	783	24	9690	900000	4969201			23
*	24	Hazardous Waste Notifiers List	783	24	9690	900000	4969202			24
*	25	UST Maps	783	24	9690	900000	4969203			25
*	26	UST Owners Update	783	24	9690	900000	4969205			26
*	28	Hazardous Waste Regulations	783	24	9690	900000	4969207			28
*	29	Radiologic Tech. Regulations	783	24	9690	900000	4969208			29
*	30	Superfund CERCLIS List	783	24	9690	900000	4969211			30
*	31	Solid Waste Permits Fees	783	24	9690	900000	4969213			31
	32	Smoking School	783	24	9690	900000	4969214			32
*	33	SWQB - NPS Publications	783	24	9690	900000	4969222			33
*	34	Radiation Licensing Regulations	783	24	9690	900000	4969228			34
*	35	Sale of Equipment	783	24	9690	900000	4969301			35
*	36	Sale of Automobile	783	24	9690	900000	4969302			36
**	37	Lust Recoveries	783	24	9690	900000	4969614			37
**	38	Lust Prepayments	783	24	9690	900000	4969615			38
	39	Surface Water Publication	783	24	9690	900000	4969801			39
	40	Exxon Reese Drive Ruidoso - CAF	783	24	9690	900000	4969242			40
	41	Emerg. Hazardous Waste Penalties NOV	957	32	1640	900000	4164032			41
	42	Radiologic Tech. Certification	987	05	1690	900000	4169005			42
	44	UST Permit Fees	989	20	1690	900000	4169020			44
	45	UST Tank Installers Fees	989	20	1690	900000	4169021			45
	46	Food Permit Fees	991	26	1690	900000	4169026			46
	43	Other								43

* Gross Receipt Tax Required ** Site Name & Project Code Required TOTAL: 700.00

Contact Person: GLENN VON GONTEN Phone #: 476-3488 Date: 8/30/13

Received in ASD By: _____ Date: _____ RT #: _____ ST# _____

FSB025

NEW MEXICO ENVIRONMENT DEPARTMENT - ALBUQUERQUE FIELD OFFICE DAILY CHECK RECEIPT LOG

DATE RECEIVED	WALK-IN	MAIL	NAME ON CHECK	DATE OF CHECK	CHECK/MONEY ORDER#	PROGRAM ACCOUNT CODE	AMOUNT OF CHECK	DATE DEPOSITED	DEPOSITED BY:
8/29/13		✓	KLEINFELDER WEST, INC	7/26/13	689075		$700.00		
TOTAL							$700.00		

REVENUE TRANSMITTAL SHEET

Description	Fund	Dept.	Share Acct	Sub Acct	Amount
Liquid Waste	34000	Z3200	496402		
Water Recreation Facilities	40000	Z8501	496402		
Food Permit Fees	99100	Z2600	496402		
OTHER					

Enterprise Products

ENTERPRISE PRODUCTS PARTNERS L.P.
ENTERPRISE PRODUCTS HOLDINGS LLC
(General Partner)

ENTERPRISE PRODUCTS OPERATING LLC

RECEIVED OCD

2013 AUG 29 A 11:33

August 29, 2013

Hand Delivered

Mr. Brad Jones
New Mexico Energy, Minerals, and Natural Resources Department
Oil Conservation Division
1220 St. Francis Drive
Santa Fe, NM 87505

Dear Mr. Jones:

RE: Enterprise Products Operating LLC
Submittal of Notice of Intent to Discharge Hydrostatic Test Water
Western Expansion Pipeline III, Segment 3
Sandoval County, New Mexico

Enterprise Products Operating LLC (Enterprise) will be constructing Segment 3 of the Western Expansion Pipeline III as an expansion to their natural gas gathering system. Please find enclosed an application for authorization to discharge hydrostatic test water following hydrostatic testing of the new pipeline. The enclosed application includes requested revisions to multiple unofficial drafts that you reviewed. The first draft of this NOI was submitted for review on July 31, 2013.

Because of unforeseen delays in BLM & BIA permitting, we are having to adjust our original schedule of where we are working within our overall project, and as such, this application is now inside the preferred 90-day window, whereas our original schedule would have allowed for a full 90-day review.

Thank you for your assistance with this request. If you have any questions or require additional information, please feel free to call Enterprise's environmental consultant, Ms. Eileen Shannon, (505) 307-0722, or myself at (713) 392-2458

Sincerely,

James G. White
Sr. Environmental Scientist

cc: Runell Seale, Enterprise
Shiver Nolan, Enterprise

P.O. BOX 4324
HOUSTON, TEXAS 77210-4324
713.381.6500

1100 LOUISIANA STREET
HOUSTON, TEXAS 77002-5227
www.enterpriseproducts.com

KLEINFELDER
Bright People. Right Solutions.

DOCUMENT TRANSMITTAL FORM

TO:	Mr. Brad Jones EMNRD Oil Conservation Division 1220 St. Francis Drive Santa Fe, NM 87505	**PAGE**	1	**OF**	1
		TRANSMITTAL DATE:	08/29/2013		
		TRANSMITTAL DCN:	134288.3-ALB13TS003		
RETURN RESPONSES/COMMENTS TO:		Eileen Shannon			
RETURN RESPONSES/COMMENTS BY:		08/30/2013			

PROJECT NO.:	134288	**PROJECT NAME:**	Enterprise - WEP III
ACTIVITY/DESCRIPTION:	Hydrostatic Test NOI - WEP III Segment 3		

DOCUMENTS BEING TRANSMITTED

ITEM	REV.	PAGES	DATE	DESIGNATOR
Submittal of a Notice of Intent	1		08/29/2013	134288.3-ALB13RP003
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	--	--	--	--

INSTRUCTIONS/REMARKS

Electronic copy to Jimmy White, Enterprise

- ☐ Mark previous issues "obsolete", "superceded", or "uncontrolled"
- ☐ Destroy previous affected material
- ☐ Return old material with this record
- ☒ New issue (no previous copies received)
- ☐ Replace with revised/new material
- ☐ Maintain as controlled copy
- ☐ Not Applicable

RECEIPT AND READ ACKNOWLEDGEMENT
Please Sign and Return To:

ADMINISTRATIVE SUPERVISOR
9019 WASHINGTON NE, BUILDING A
ALBUQUERQUE, NM 87113
FAX: 505.344.1711 OR KKNIGHTS@KLEINFELDER.COM

CLIENT RECEIPT	PRINT NAME	SIGNATURE	DATE
Complete & Return this page via Fax/Mail/Email			

KLEINFELDER RECEIPT	PRINT NAME	SIGNATURE	DATE
Complete this section upon receipt from client			

KLEINFELDER
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RECEIVED
2013 AUG 29 A 11: 33

August 29, 2013
Project No.: 134288

Mr. Brad Jones
New Mexico Energy, Minerals, and Natural Resources Department
Oil Conservation Division
1220 St. Francis Drive
Santa Fe, NM 87505

SUBJECT: DRAFT – Submittal of a Notice of Intent to Perform Hydrostatic Test
WEP III – Segment 3
Santa Fe County, New Mexico

Dear Mr. Jones:

On behalf of Enterprise Products Operating LLC (Enterprise), Kleinfelder West, Inc. (Kleinfelder) is submitting this draft Notice of Intent (NOI) for a hydrostatic test to be conducted on Segment 3 of Enterprise's Western Expansion Pipeline III (WEP III).

Kleinfelder has included the required information for the NOI as stated in the "Guidelines for Hydrostatic Test Dewatering" dated January 11, 2007. Attached to this NOI are the following:

- Background Information;
- Notice of Intent Plan;
- Figure 1 – New Enterprise Pipeline Undergoing Hydrostatic Testing Location Map;
- Figure 2 – Discharge Location Detail;
- Figure 3 – Dissipation and Discharge Area;
- Appendix A – Certification of Siting Criteria;
- Appendix B – Water Feature, Water Well Information and Floodplain information;
- Appendix C – Area Mine Information;
- Appendix D – Geology;
- Appendix E – Area Landownership and Permission from landowners;
- Appendix F – Public Notice;
- Appendix G – Electro-Coagulation Process Information; and
- Appendix H – King Well Analytical Data.

A check totaling $700 made out to the New Mexico Water Quality Management Fund is included with this NOI for the $100 filing fee and the $600 permit fee.

KLEINFELDER 9019 Washington St. NE Building A. Albuquerque, NM 87113 **p|** 505.344.7373 **f|** 505.344.1711

Kleinfelder prepared this NOI in a manner consistent with the level of care and skill ordinarily exercised by other members of Kleinfelder's profession practicing in the same locality, under similar conditions and at the date the services are provided. The information provided in this document is based on our understanding of the information provided by Enterprise.

Should you have any questions, please feel free to contact Eileen Shannon (Kleinfelder) at 505.344.7373 or Jimmy White (Enterprise) at 713.392.2458.

Respectfully submitted,

KLEINFELDER WEST, INC.

for

Melissa Cote
Professional

Reviewed by:

Eileen L. Shannon, PG
Project Manager

cc: James White, Enterprise Products Operating LLC, PO Box 4324, Houston, TX 77210

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Background Information

- The U.S. Department of Transportation (DOT) Pipeline and Hazardous Materials Safety Administration (PHMSA) requires periodic pressurized tests on all DOT-regulated pipelines and all newly installed pipelines to verify the integrity and safety of pipeline systems. Because the pipeline is part of a natural gas gathering system, waste water generated during hydrostatic testing is classified as RCRA-exempt waste water and does not require management as a RCRA waste or disposal at a RCRA-approved facility;
- The Enterprise Western Expansion Pipeline (WEP) III line is a new, welded, steel pipeline. In Segment 3, most of the pipeline is 16-inch diameter, but some portions of the pipeline are 20-inch in diameter. Segment 3 of the WEP III pipeline is 34.0 miles or 179,400 feet long (Figure 1);
- The pipeline is part of a gathering system that transports natural gas from the Piceance and San Juan Basins to processing facilities located in Hobbs, New Mexico and Houston, Texas;
- The source water for the hydrostatic testing is the King Irrigation Well (King well). The location of the King well, POD number E 00321 S-14, is shown in Figures 1 and 2;
- The section of the pipeline to be tested is located Torrance, Santa Fe, Sandoval, and Bernalillo Counties. Testing will occur on September 25, 2013. The approximate date of discharge to the pipeline ROW is October 5, 2013;
- Per NMAC 20.6.2.3108, a sample of the public notice is included in Appendix F; and
- Per NMAC 20.6.2.3108, public notice will be made in English by the following methods:
    1. A 2 feet by 3 feet in size sign will be posted at the discharge location;
    2. Written notice will be posted at the Moriarty, New Mexico post office;
    3. Written notice of the discharge by mail to all owners of record for properties adjacent to where the discharge site is located;
    4. The notice will be sent by certified mail, return receipt requested, to the owner of the discharge site; and
    5. A synopsis of the notice will be published in a display ad at least three inches by four inches in size in *The Mountain View Telegraph*. Public notice is published every Thursday. The space for the ad must be reserved by Monday at noon, and the text is required by Tuesday afternoon for publication on following Thursday.

Notice of Intent Plan

On behalf of Enterprise, Kleinfelder is submitting this NOI plan as outlined in NMOCD Guidance document, "Guidelines for Hydrostatic Test Dewatering," (revised January 11, 2007). The NOI plan includes the following items:

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Item a. Name and address of the proposed discharger:

Legally Responsible Party	Mr. Leonard W. Mallett, Group Sr. VP, Engineering POC: Ms. Shiver Nolan, Sr. Compliance Administrator P.O. Box 4324 Houston, Texas 77210 713.381.6595
Local Representative	Ms. Runell Seale Enterprise Products Operating LLC 614 Reilly Ave. Farmington, NM 87401 505.599.2124

Item b. Location of the discharge, including a street address, if available, and sufficient information to locate the facility with respect to surrounding landmarks:

Water from the hydrostatic testing will be discharged at the lower-central portion of WEP III Segment 3 near MP 241.5 in Santa Fe County. The discharge area will occur:

- in the pipeline ROW in an area approximately 125 feet wide by 310 to 520 feet long (approximately 49,120 square feet); and
- in the adjacent property north of the ROW in an area approximately 90,625 square feet in size. Landowner permission to discharge is included in Appendix E.

The location of the pipeline to be hydrostatically tested and the discharge location are shown on Figures 1 and 2.

The location of the hydrostatic discharge area is approximately 4 miles northwest of Moriarty, New Mexico. Directions to the discharge site from Moriarty, New Mexico are:

- From the intersection of NM-41 and NM-333 E;
- Head north on NM-41 for 0.4 miles;
- Turn east onto Abraham's/I-40 Frontage Rd for 1.6 miles;
- Continue to north on Country Rd A 106/ Green Rd for 1.7 miles;
- Continue onto Country Rd 21/ King Farm Rd for 1 mile;
- Turn left onto an unnamed road and continue for 0.5 mile;
- The discharge area will be on the right.

The approximate coordinates for the discharge area location are: Latitude 35.055273; Longitude -106.080531.

Item c. Legal description of the discharge location:

The discharge location is located:

- In the SE/4; SW/4; Section 27, T10N, R8E (Figure 1).
- The latitude and longitude coordinates are included in *Item b.*

Item d. Maps (site-specific and regional) indicating the location of the pipelines to be tested:

- Figure 1 – Regional map showing topography, the pipeline section undergoing testing, and the hydrostatic test water discharge location.
- Figure 2 – Site-specific map showing the hydrostatic test water discharge area.

Item e. A demonstration of compliance to the following siting criteria or justification for any exceptions:

Shapefiles were downloaded from various electronic sources and were included in a Geographic Information System (GIS) database for preparation of this NOI. The maps generated from this database were reviewed between July 3 and July 5, 2013. Detailed references for the various shape files are included in the Reference section. Sources used for preparation of the maps in this NOI are included on the individual figures.

i. Within 200 feet of a watercourse, lakebed, sinkhole, or playa lake;

No watercourses; lakebeds, sinkholes, or playa lakes were observed within 200 feet of the discharge area during the site visit (Appendix A). A search of watercourses, lakebeds, sinkholes and playa lakes in the vicinity of the discharge area was completed by reviewing a topographic map and using the GIS database. None were indicated during the review. A copy of the topographic map is included in Appendix B, Figure B-1.

ii. Within an existing wellhead protection area or 100-year floodplain;

No springs were identified on the topographic map within 1,000 feet of the discharge area (Figure B-1, Appendix B) and no springs were observed during the site inspection (Appendix A).

The New Mexico Office of the State Engineer (OSE) and GoTech websites were checked for water supply wells located in the vicinity of the site and two were found near the site:

- Well E 00308 S-3, plots approximately 700 feet northwest of the discharge area (Figure B-2 in Appendix B). This well was not found during the site visit. When researched on the OSE website, no data is available for this well (no information on the point of diversion summary sheet, no well details, and no depth to water information). No water quality data was for this well was found on the GoTech website. It is assumed that this well is misplotted.
- Well E 00308 EXPL-2, plots approximately 1,000 feet northwest of the discharge area (Figure B-2 in Appendix B). When researched during the site visit, its actual location is in the center of the irrigation pivot, located approximately 1,001 feet north of the northern edge of the discharge area

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(Figure 2). No groundwater elevation or groundwater quality was available for this well on the OSE website or on the GoTech website.

According to the Federal Emergency Management Administration DFIRM Panel 35049C1025D map, the discharge area is not located within a 100-year floodplain. The discharge and surrounding areas are located in Zone X. Figure B-3 (Appendix B) illustrates the above findings.

iii. Within, or within 500 feet of, a wetland;

No wetlands were observed during the site inspection (Appendix A). A topographic map provided by the U.S. Fish and Wildlife Service National Wetlands Inventory database was reviewed for wetlands in the vicinity of the site. Wetlands were not observed in or within 500 feet of the perimeter of the discharge area. A copy of the topographic map is included in Appendix B, Figure B-1.

iv. Within the area overlying a subsurface mine; or

A map generated from the New Mexico Mining and Minerals Division GIS database was reviewed for active mines. No active mines were located at or in the vicinity of proposed discharge area (Figure C-1 in Appendix C). Mr. Mike Tompson, with the New Mexico Abandoned Mine Lands Program, was contacted on July 5, 2013 to assess the presence of abandoned subsurface mines in the vicinity of the proposed discharge area. According to Mr. Tompson, they have no record of abandoned subsurface mines within a half mile radius of the proposed discharge site (see email, Appendix C).

v. Within 500 feet from the nearest permanent residence, school, hospital, institution or church.

No permanent residences, school, hospital, institution or church were noted on aerial photographs of the area (Figure 2), nor were they noted during the site visit (Appendix A).

Item f. A brief description of the activities that produce the discharge;

Pressure testing with water, also known as hydrostatic testing, is one of the tools pipeline operators use to verify pipeline integrity. The purpose of hydrostatic testing of a pipeline is to determine the extent to which potential defects might threaten the pipeline's ability to sustain maximum allowable operation pressure. Because this is new piping, previous contents of the pipe do not need to be cleared. Segment 3 will be tested in five sections. Test water will be introduced into the first section to be tested. The pipeline will then be pressurized to a pressure higher than maximum operating pressure for approximately eight hours. After that section is tested, that test section will be de-pressurized and needed volume of water will be pushed into the next section for re-use in testing. Excess water will be held in the previous test section. If leaks or breaks occur, that section of pipeline is repaired or replaced, then re-tested. Test section sequence is as follows:

- MP 236.3 to 240.3
- MP 240.3 to 241.5
- MP 241.5 to 252.1
- MP 252.1 to 262.2

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- MP 262.2 to 270.0

After this sequence is complete, the water used in the last test, along with any excess water remaining in previous sections, will be pushed back to MP 241.5 for discharge.

Item g. The method and location for collection and retention of fluids and solids;

Because the piping is new, solids are not anticipated to be produced as a result of the hydrostatic testing. Once hydrostatic testing has been completed in all sections, a sample will be collected from the pipe at the discharge location (MP 241.5), The water will be tested for water quality as described in *item j.* Water will be held in the pipe until the test results are received and approved. Once approval to discharge has been received, the test water will be allowed to flow onto approximately 49,120 square feet of the ROW and onto approximately 90,625 square feet of the adjacent property to the north.

Item h. A brief description of best management practices to be implemented to contain the discharge onsite and to control erosion;

Non-woven geotextile fabric will be installed beneath the dissipation structure to prevent scouring. Hay bales will be used to control erosion as the water is discharged from the pipeline at a rate of approximately 1,500 gallons per minute (gpm) into the hydrostatic waste water dissipation and discharge system. A connector pipe is attached to the end of the pipeline and to a baffle "T" located within the dissipation structure. Pipeline water will gradually be released from the dissipation structure at a low flow rate onto the area described in *item g.* The dissipation and discharge structure will be built to maintain the proper flow rate to avoid scouring the landscape. Soil berms approximately four feet wide and three feet high will be placed south of the discharge area to prevent flow onto the road or properties to the south (Figure 2). A diagram and description of the hydrostatic waste water dissipation and discharge system is shown in Figure 3.

Item i. A request for approval of an alternative treatment, use, and/or discharge location (other than the original discharge site), if necessary;

No alternate discharge sites have been proposed for this segment.

If hydrostatic test water analytical results exceed the greater of the standards of NMAC 20.6.2.3103 or background levels for discharge, the test water will be treated using an electro-coagulation cleaning process and a separate filtering system. This process is described in Appendix G.

After the electro-coagulation process is completed, the water will be tested again as described in Appendix G. If it does still not meet the greater of standards of NMAC 20.6.2.3103 or background levels required for discharge approval, the water will be hauled and disposed of as described in *item k.*

Item j. A proposed hydrostatic test wastewater sampling plan;

Enterprise requests that it not be required to test for Radium 226/228. The King well, sampled on April 11, 2013, had the following results for radium (in pCi/L): Radium – 226 at 0.0647 ± 0.380; and Radium – 228 at 0.463 ± 0.432. These levels are below the 30 pCi/L standard in NMAC 20.6.2.3103. The laboratory analytical report is included in Appendix H.

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Prior to discharge, Enterprise will collect a sample of the test water from the discharge location (MP 241.5) and have it analyzed using the following methods.

SAMPLING PLAN FOR COMPLIANCE WITH NMAC 20.6.3103 (A), (B), (C)		
ANALYTES	METHOD	BOTTLE TYPE/PRESERVATIVE
Volatile Organics	8260B	3 x 40 ml VOA's / HCl
Ethlylene dibromide	504.1	2 x 40 ml VOA's / $Na_2S_2O_3$
Polychlorinated Biphenols	8082	2 x liter amber / unpreserved
Polynuclear Aromatic Hydrocarbons	8310	1 x liter amber / unpreserved
Phenols	9067	1 x liter amber / H_2SO_4
Anions, TDS, pH	300.0 SM 2540C SM 4500-H+B	1 x 500 ml plastic / unpreserved 1 x 125 ml plastic / H_2S04
Mercury	245.1	1 x 500 ml plastic / $HN0_3$
Dissolved Metals	200.7 / 200.8	1 x 125 ml plastic + filter & syringe / HNO_3
Total Cyanide	335.4	1 x 500 ml plastic amber / NaOH

Once the results have been received, they will be forwarded to the NMOCD. Upon NMOCD concurrence that the discharge water meets the water quality standards of NMAC 20.6.2.3103, or background levels, whichever is greater, Enterprise will discharge the water in accordance with the approved discharge permit.

Item k. A proposed method of disposal of fluids and solids after test completion, including closure of any pits, in case the water generated from test exceeds the standards as set forth in Subsections A, B, and C of the 20.6.2.3103 NMAC (the New Mexico Water Quality Control Commission Regulations);

As described in Appendix G, if after the electro-coagulation process, if the test water still exceeds discharge requirements, the water will be transported from the project site in DOT-approved tanker trucks to one of the following waste water disposal companies:

- Basin Disposal, Inc. (API 30-045-26862, Disposal Well No. 1: IPI-149-0) in Aztec, New Mexico;
- Agua Moss, LLC (Permit # UIC-I-005) on Crouch Mesa, in Bloomfield New Mexico; or
- Gandy Marley, Inc. (Permit # NM1-19-0) on Highway 380 between Tatum and Roswell, New Mexico.

The water will be transported by one or more of the following NMOCD-approved haulers:

- Dawn Trucking Co. (C133-31);
- M&R Trucking, Inc. (C133-399);
- Three Rivers Trucking, Inc. (C133-335); or
- Triple S Trucking Co., Inc. (C133-372).

Any solids generated using the electro-coagulation process will be disposed of at one of the following NMOCD-approved commercial surface waste management facilities:

- Gandy Marley Inc., in Chaves County (Permit No. 19).
- Lea Land Inc. in Lea County (Permit No. 24).

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- R360 Permian Basin LLC (formerly Controlled Recovery Inc.) in Lea County (Permit No. 6).

C-138 manifest forms will be prepared and provided with all liquid and solid waste that is hauled for disposal.

Item l. A brief description of the expected quality and volume of the discharge;

The volume of the hydrostatic test water expected to be discharged is approximately 850,000 gallons. Source water used for the hydrostatic test will be water from the King well. Laboratory analytical data collected from the King well on April 11, 2-13, is included in Appendix H. New piping will be tested which should not impact the quality of the water being discharged.

Item m. Geological characteristics of the subsurface at the proposed discharge site;

Information regarding the soil characteristics was obtained from the United States Department of Agriculture (USDA) soil survey (USDA, 2008). Based on that information, soils in the area are dominated by Hyer-Witt complex surface soils comprised of well-drained silt loam. Hyer-Witt soil is formed in eolian and/or alluvium derived from sandstone and shale. It is associated with 0 to 3 percent slopes. There are also Lazarus silt loam and Palma fine sandy loam soils in the area. Both of these alluvial soil types are also derived from sandstone and shale. Palma is associated with 3 to 8 percent slopes and Lazarus is associated with 0 to 2 percent slopes.

The soil overlies Alluvium (Qa) and Older Alluvium (Qoa) (Figure D-1, Appendix D). These alluvium formations generally occur on valley floors. They consist of unconsolidated silt, sand, and gravel (Titus, 1980). Karst was not identified at or within the area surrounding the discharge area (Figure D-2, Appendix D).

Item n. The depth to and total dissolved solids concentration of the ground water most likely to be affected by the discharge; and

The groundwater most likely to be affected by the discharge is the Shallow Aquifer of the Estancia Valley formation. Depth to water from area wells ranges from 30-210 feet with an average of 140 feet below ground surface.

The OSE website was accessed on July 3, 2013 and August 15, 2013 to obtain available depth to water data in the vicinity of the discharge area. As discussed in *item b,* no data was available for two of the wells located closest to the discharge site, wells E 00308 S-3 and E 00308 EXPL-2. The closest available data to the discharge area were from two wells; E00308 S-2, located approximately 2,000 feet north-northeast and well E 00308 S-5 located approximately 2,800 feet northeast of the site. Using ground elevation data obtained from the topographic map and depth to water information found on the OSE website the elevation of shallow aquifer in this area is:

Well ID	Ground Surface Elevation	Depth to Water	Groundwater Elevation
E 00308 S-2	6285	188	6097
E 00308 S-5	6257	128	6129
E 08817 POD1	6231	185	6046

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The water source for the test water used in the hydrostatic testing of Segment 3 is the King well, is located approximately 1.5 miles away from the site. Based on data from the OSE website, the closest well with available groundwater data is E 08817 POD1, located approximately 500 feet northwest of the King well. Using ground surface elevation data from the topographic map and data from the OSE website, groundwater elevation of the shallow aquifer in the vicinity of the King well is 6046 feet, as summarized in the table above.

The King well is completed in the Shallow Aquifer of the Estancia Valley formation; the same shallow aquifer that is present at the discharge location. The concentration of applicable constituents (same constituents as those listed in NMAC 20.6.2.3103) detected in a groundwater sample collected from the King well, can be considered background groundwater quality for the groundwater at the discharge location. The total dissolved solids concentration in the King well, in a sample collected in April 2013, was 2,070 milligrams/liter (mg/L). Chloride and sulfate concentrations in the King well were 350 mg/L and 980 mg/L, respectively (Appendix H). These constituent values are representative of background values for the Shallow Aquifer.

Item o. Identification of landowners at and adjacent to, the discharge and collection/retention site:

The landowner of record for the property at the discharge location is:

Map Parcel ID	Santa Fe County Parcel ID	Property Owner
A	910016102	SLK Properties, LLC 3195 B Highway 41 Moriarty, NM 87035

Signed permission from the landowner to discharge onto private property north of the ROW is included in Appendix E.

The landowners of record for properties adjacent to the property where the discharge will occur are:

Map Parcel ID	Santa Fe County Parcel ID	Property Owner
B	910016100	King Farms Box 2670 Moriarty, NM 87035
C	910005882	State Land Office 310 Old Santa Fe Trail Santa Fe, NM 87501
D	910013938	David and Diane Lee Et. al. PO Box 35640 Albuquerque, NM 87176
E	910016103	King Farms 3195 B Highway 41 Moriarty, NM 87035
F	99304017	Joshua Chad and Tonya Cogburn 92 Martin Ln. Moriarty, NM 87035
G	99000700	Edward J. and Lourdes R. Kulik 1177 Masterpiece Drive Oceanside, CA 92057
H	99000701	Robert A. and Julie A. Meisel 1309 Greengate Court Waldorf, MD 20601

Map Parcel ID	Santa Fe County Parcel ID	Property Owner
I	99206620	David M. and Sandye L. Abbate PO Box 2897 Moriarty, NM 87035
J	99206617	Charles and Brenda Breckenridge, P.O. Box 1177 Moriarty, NM 87035
K	960000560	John Wayne Davis PO Box 266 Moriarty, NM 87035
L	98700629	Joe Victor Davis PO Box 266 Moriarty, NM 87035
M	98401474	Calvin L. Davis, Sr PO Box 1890 Moriarty, NM 87035

Figure E-1 illustrates the parcel locations discussed above.

References

Go-Tech, New Mexico Water database (NM WAIDS, accessed August 15, 2013, http://octane.nmt.edu/waterquality/data/gwatersearch.aspx.

Office of the State Engineer (OSE) database search accessed in July 8, 2013, http://nmwrrs.ose.state.nm.us/nmwrrs/index.html.

Titus, F.B., 1980, "Ground Water in the Sandia and Northern Manzano Mountains, New Mexico" Rep. no. 5. Socorro, NM: New Mexico Bureau of Mines and Mineral Resources, 1980.

United States Department of Agriculture (USDA) Soil Survey database, accessed July 8, 2013, http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx

GIS References – Segment 3

NM Topographic 7.5' quadrangle maps (Segment 3)

- Bernalillo
- Hagen
- Captain Davis Mountain
- Sandia Crest
- San Pedro
- Stanley
- Tijeras
- Edgewood
- Hubble Spring
- Escabosa
- Moriarty South
- Placitas
- Golden
- Alameda
- Sandia Park
- King Draw
- Albuquerque East
- Sedillo
- Moriarty North
- Mount Washington
- Chilili
- Lobo Hill

Basemap for inset on Figure 3

- -ESRI World Street Map. Sources: ESRI, DeLorme, NAVTEQ, TomTom, USGS, Intermap, iPC, NRCAN, ESRI Japan, METI, ESRI China (Hong Kong), ESRI (Thailand)

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Aerial imagery on Figure 2, Segment 3

- ESRI World Imagery; ESRI DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community. Date of image: 06/18/2010

State and County boundaries

- ESRI Street Map North America dated August 17, 2010

Cities and Towns; Urban areas

- *TIGER urban areas 2010 (tl_2010_35_place10.shp) 2010 Census data
- ESRI Street Map North America dated August 17, 2010

PLSS

- *BLM GIS dataset dated June 3, 2013

Surface waters (streams and water bodies)

- *National Hydrography Dataset, USGS, GIS dataset downloaded May 4, 2011

Wetlands

- *National Wetlands Inventory, USF&WS, GIS dataset downloaded May 4, 2011

OSE Wells

- *New Mexico Office of the State Engineer, Excel spreadsheet dated of July 2011
- Unable to find the USGS wells listed on the PRRC references sheet

Floodplains, Segment 3

- *S_FLD_HAZ_LN downloaded from New Mexico Resource Geographic Information System Program, http://rgis.unm.edu/ GIS shapefile downloaded June 5, 2013
- FEMA DFIRM Panel 35043C2075F dated 8/5/2010

Mines

- New Mexico Mining and Minerals Division, February 2012
- *Coal mine permit boundaries shapefile from RGIS, downloaded June 17, 2013
- Potash areas from BLM Carlsbad Field Office basemap, downloaded May 8 , 2012

Geology

- USGS OFR 2005-21351. Stoeser, D.B., G.N. Green, L.C. Morath, W.D. Heran, A.B. Wilson, D.W. Moore, and B.S. Van Gosen, 2005. Preliminary Integrated Geologic Map Databases for the United States; Central States: Montana, Wyoming, Colorado, New Mexico, Kansas, Oklahoma, Texas, Missouri, Arkansas, and Louisiana, - The State of New Mexico. U.S. Geological Survey Open-File Report 2005-1351
- USGS Fault and Fold Database, GIS shapefiles downloaded November 3, 2010
- BLM Carlsbad Field Office GIS Basemap GIS dataset downloaded on May 8, 2012

Karst

- *USGS OF 2004-1352. Tobin, Bret D., and David J. Weary, 2004. Digital Engineering Aspects of Karst Map: A GIS version of Davies, W.E., Simpson, J.H., Ohlmacher, G.C., Kirk, W.S., and Newton, E.G., 1984, Engineering aspects of karst: U.S. Geological Survey, National Atlas of the United States of America, scale 1:7,500,000. U.S. Geological Survey Open-File Report 2004-1352

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- BLM Carlsbad Field Office GIS Basemap, Caves potential GIS shapefile downloaded on May 8, 2012
- BLM NM GIS dataset, Karst potential, GIS shapefile provided by BLM on April 3, 2012

Land Ownership
- BLM NM GIS dataset downloaded June 3, 2013

*same source as used on Pit Rule Petroleum Recovery Research Center database (PRRC) http://ford.nmt.edu/prrc_MF/index5.html

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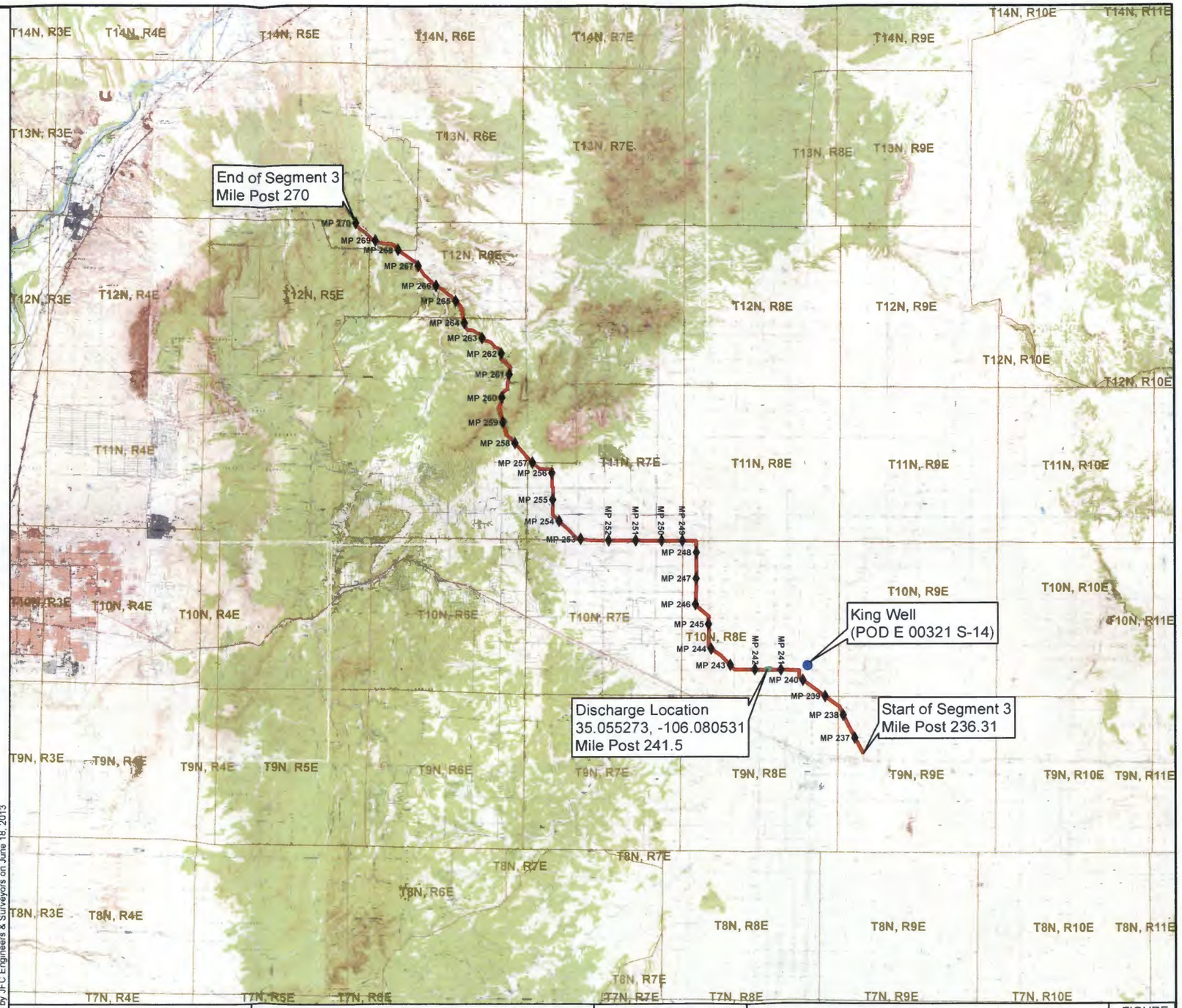
FIGURES

Source: ESRI World Street Map

LEGEND

- DISCHARGE LOCATION
- MILE POST
- APPROXIMATE SEGMENT OF PIPELINE TO BE HYDROSTATICALLY TESTED
- SOURCE WELL LOCATION



Source: USGS 7.5' Quadrangle Topographic Maps
Bernalillo, Placitas, Hagan, Golden, Captain Davis Mountain, Alameda, Sandia Crest, Sandia Park, San Pedro, King Draw, Stanley,
Albuquerque East, Tijeras, Sedillo, Edgewood, Moriarty North, Hubble Spring, Mount Washington, Escabosa, Chilli, Moriarty South,
Lobo Hill, NM
Centerline: SPREAD3_IFC_8470SEG3A_060313_CL.shp and SPREAD3_IFC_8470SEG3B_060313_CL.shp provided
by JFC Engineers & Surveyors on June 18, 2013

N
1.5 0 1.5 3
Miles
Locations are Approximate

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FILE NAME:	Seg3_Figure1.mxd

NEW ENTERPRISE PIPELINE
WEP III SEGMENT 3

ENTERPRISE PRODUCTS OPERATING LLC
SANDOVAL, BERNALILLO, SANTA FE
AND TORRANCE COUNTIES, NEW MEXICO

ORIGINATOR: K. HAGAN
APPROVED BY: ES 8/28/13

DRAWING CATEGORY: 1

FIGURE **1**

Date: 8/16/2013 User: KHagan

Source: ESRI World Imagery: ESRI, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community. Date of image: 03/23/2011
SPREAD3_IFC_8470SEG3B_060313_CL.shp, SPREAD3_IFC_8470SEG3_060313_CROW.shp provided by JFC Engineers & Surveyors on June 18, 2013

N

300 0 300 600
Feet

Locations are Approximate

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NEW ENTERPRISE PIPELINE
WEP III SEGMENT 3 DISCHARGE LOCATION

ENTERPRISE PRODUCTS OPERATING LLC
SANTA FE COUNTY, NEW MEXICO

ORIGINATOR: K. HAGAN
APPROVED BY: ES 8/20/13
DRAWING CATEGORY: 1

FIGURE **2**

User: KHagan
Date: 8/19/2013

Straw bale catch basin: Bales will be installed 2-3 bales high and 2 bales wide.

Mirafi Fabric: Mirafi fabric will be installed on the inner walls of the interior straw bale catch basins to ensure the capture of suspended solids and debris that may occur from the testing procedure.

Top View

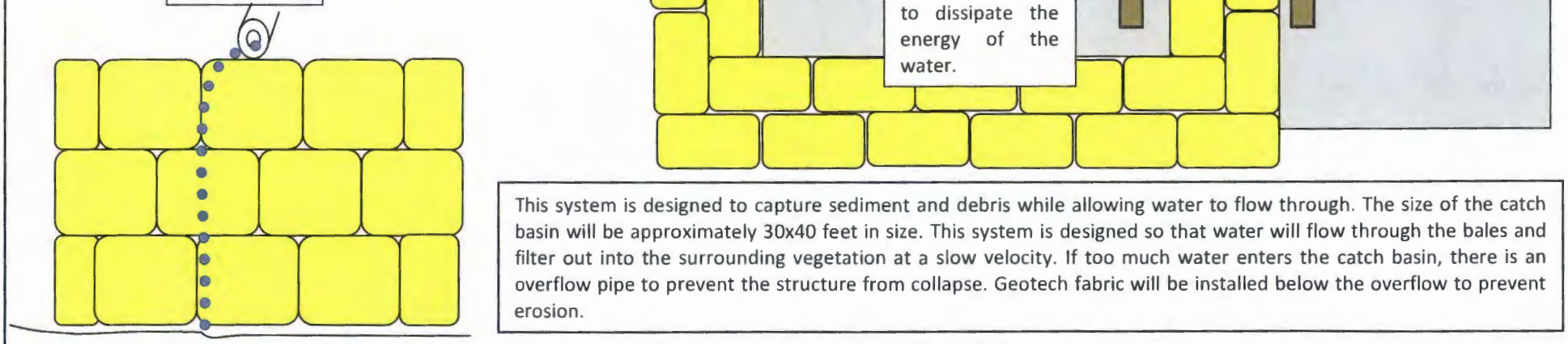
Plywood Supports: Plywood supports will be built to support the discharge point and the overflow pipe so that they do not rest on the straw bales.

Discharge points

Diffuser: A diffuser will be installed at the discharge point to dissipate the energy of the water.

Overflow Pipe

Side View



This system is designed to capture sediment and debris while allowing water to flow through. The size of the catch basin will be approximately 30x40 feet in size. This system is designed so that water will flow through the bales and filter out into the surrounding vegetation at a slow velocity. If too much water enters the catch basin, there is an overflow pipe to prevent the structure from collapse. Geotech fabric will be installed below the overflow to prevent erosion.

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FILE NAME:	Seg3_Figure3.doc

DISSIPATION AND DISCHARGE SYSTEM

ENTERPRISE PRODUCTS OPERATING LLC
SANTA FE COUNTY, NEW MEXICO

ORIGINATOR: K.HAGAN
APPROVED BY: ES 8/28/13

DRAWING CATEGORY
1

FIGURE
3

APPENDIX A
Certification of Siting Criteria

Certification of Siting Criteria

Hydrostatic Discharge Line

I, Gunnar Westerman, have performed a site visit to look for the presence of the items described below and have confirmed that evidence of these items was not observed within the specified distance from the discharge area. The discharge area will be located (35.055273°,-106.080531°) in the SE/4 of the SW/4 of Section 27, Township 10 North, Range 8 East in Santa Fe County, NM.

1. Within 200 feet of a watercourse, lakebed, sinkhole or playa lake;
2. Within an existing wellhead protection area (200 feet from a private, domestic fresh water well or spring used by less than five households for domestic or stock watering purposes or 1,000 feet from any other fresh water well or spring);
3. Within a surface expression of a subsurface mining operation or karst feature;
4. Within, or within 500 feet of, a wetland; or
5. Within 500 feet from the nearest permanent residence, school, hospital, institution or church.

On behalf of Enterprise Products, I state that the above information is complete and true to the best of my knowledge.

R Gunn Westerman

Signature

07/03/2013

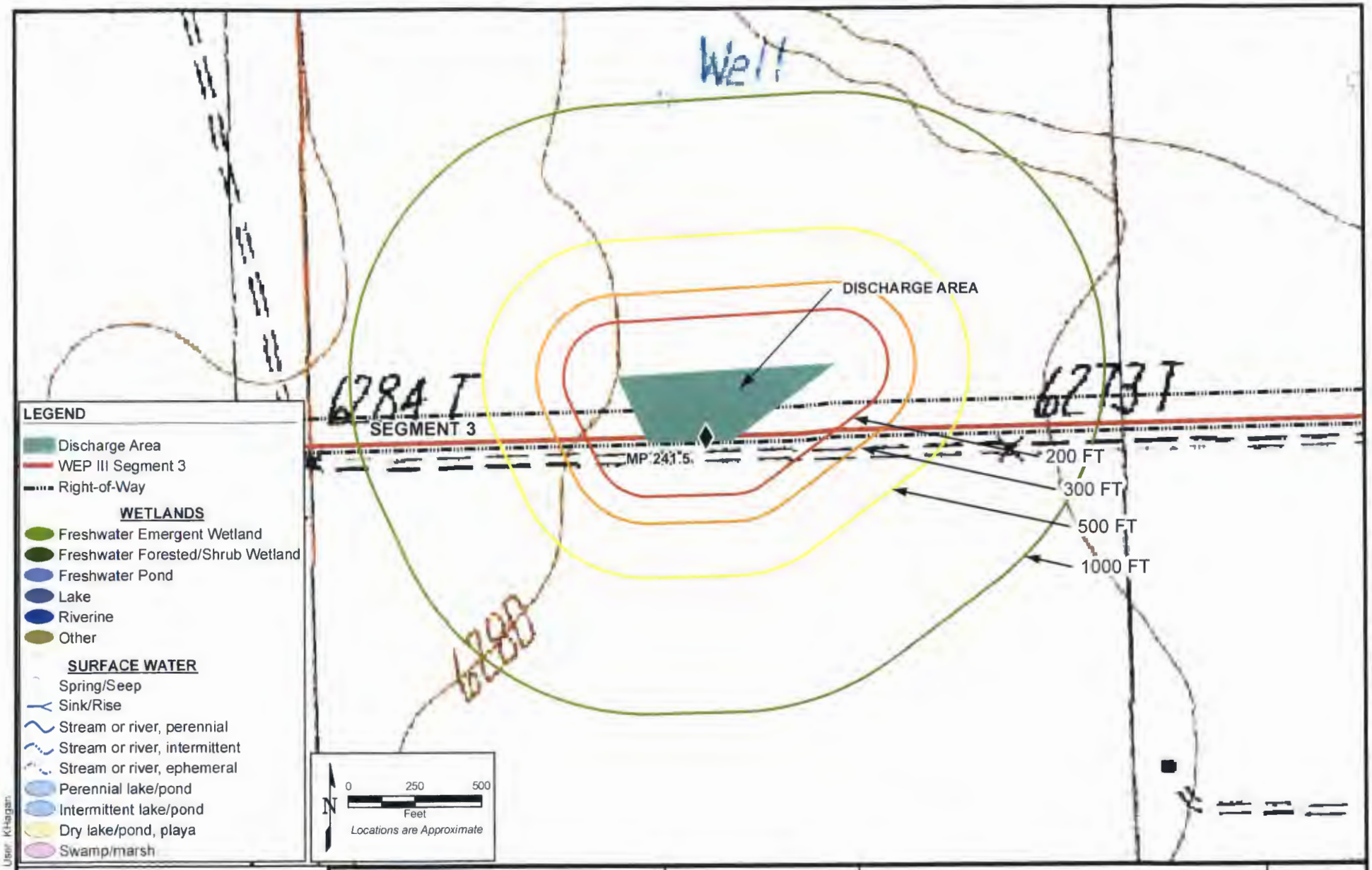
Date of Site Visit

Environmental Scientist/Field Tech.

Title:

APPENDIX B

Water Feature, Water Well Information and Floodplain Information



Sources:
SPREAD3_IFC_8470SEG3B_060313_CL.shp and
SPREAD3_IFC_8470SEG3B_060313_CROW.shp
provided by JFC Engineers & Surveyors on June 18, 2013
National Wetlands Inventory, USF&WS
National Hydrography Dataset, USGS
USGS 7.5' Topographic Quadrangle, Moriarty North, NM

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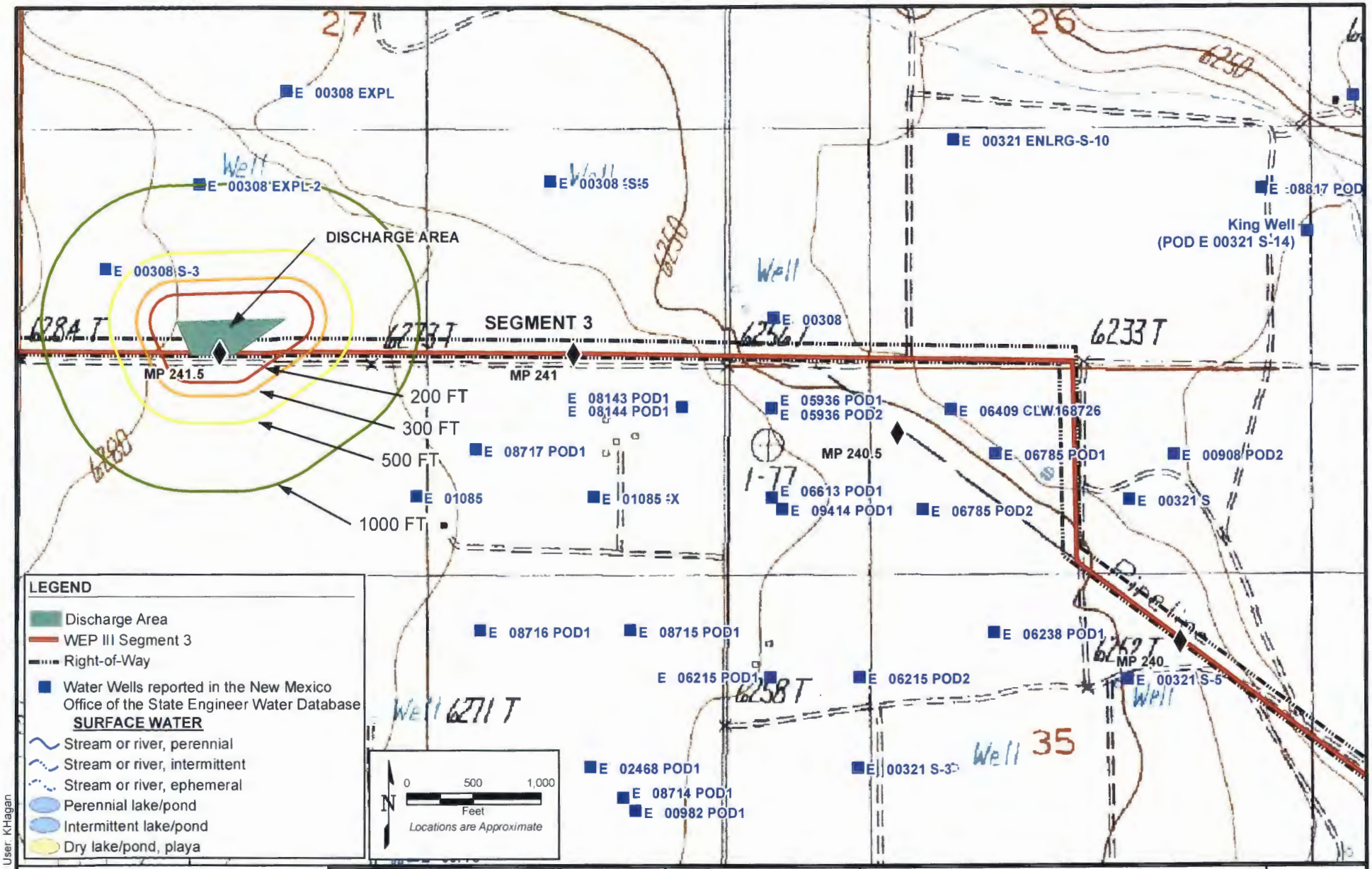
SURFACE WATER AND WETLANDS NEAR DISCHARGE AREA, WEP III SEGMENT 3

ENTERPRISE PRODUCTS OPERATING LLC
SANTA FE COUNTY, NEW MEXICO

ORIGINATOR: K. HAGAN
APPROVED BY: RLS 8/20/13
DRAWING CATEGORY: 1

FIGURE
B-1

User: KHagan
Date: 8/15/2013



Sources:
SPREAD3_IFC_8470SEG3B_060313_CL.shp and
SPREAD3_IFC_8470SEG3B_060313_CROW.shp
provided by JFC Engineers & Surveyors on June 18, 2013
New Mexico Office of the State Engineer, data as of 07/2011
USGS 7.5' Topographic Quadrangle, Moriarty North, NM

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WATER WELLS IN THE VICINITY OF THE DISCHARGE AREA, WEP III SEGMENT 3

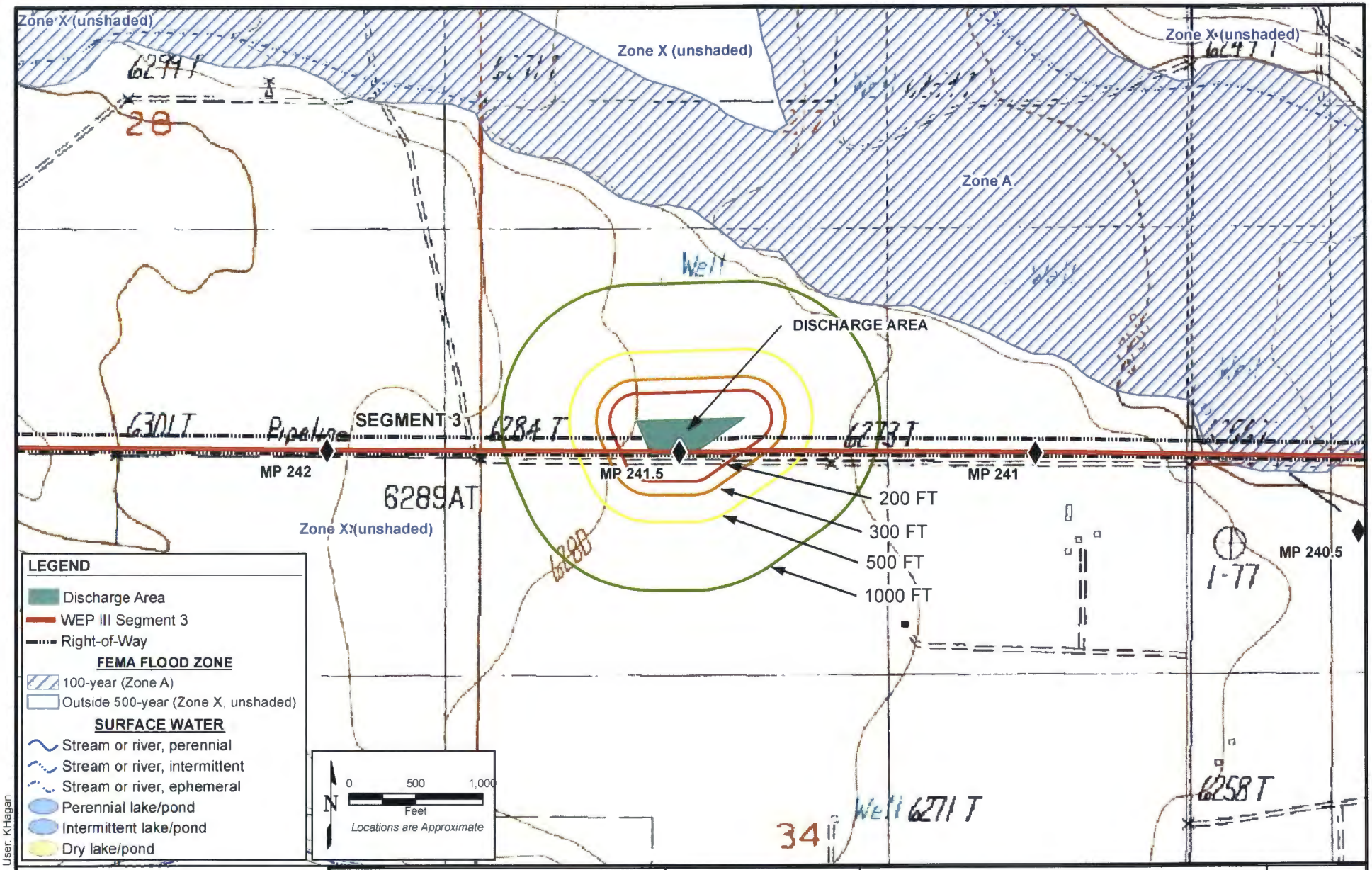
ENTERPRISE PRODUCTS OPERATING LLC
SANTA FE COUNTY, NEW MEXICO

ORIGINATOR: K. HAGAN
APPROVED BY: ES 8/28/13

DRAWING CATEGORY: 1

FIGURE
B-2

User: KHagan
Date: 8/16/2013



Sources:
SPREAD3_IFC_8470SEG3B_060313_CL.shp and
SPREAD3_IFC_8470SEG3B_060313_CROW.shp
provided by JFC Engineers & Surveyors on June 18, 2013
FEMA FIRM panel 35049C1025D dated 6/17/2008
USGS 7.5' Topographic Quadrangle,Moriarty North, NM

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FEMA FLOOD MAP FOR THE VICINITY OF THE DISCHARGE AREA, WEP III SEGMENT 3

ENTERPRISE PRODUCTS OPERATING LLC
SANTA FE COUNTY, NEW MEXICO

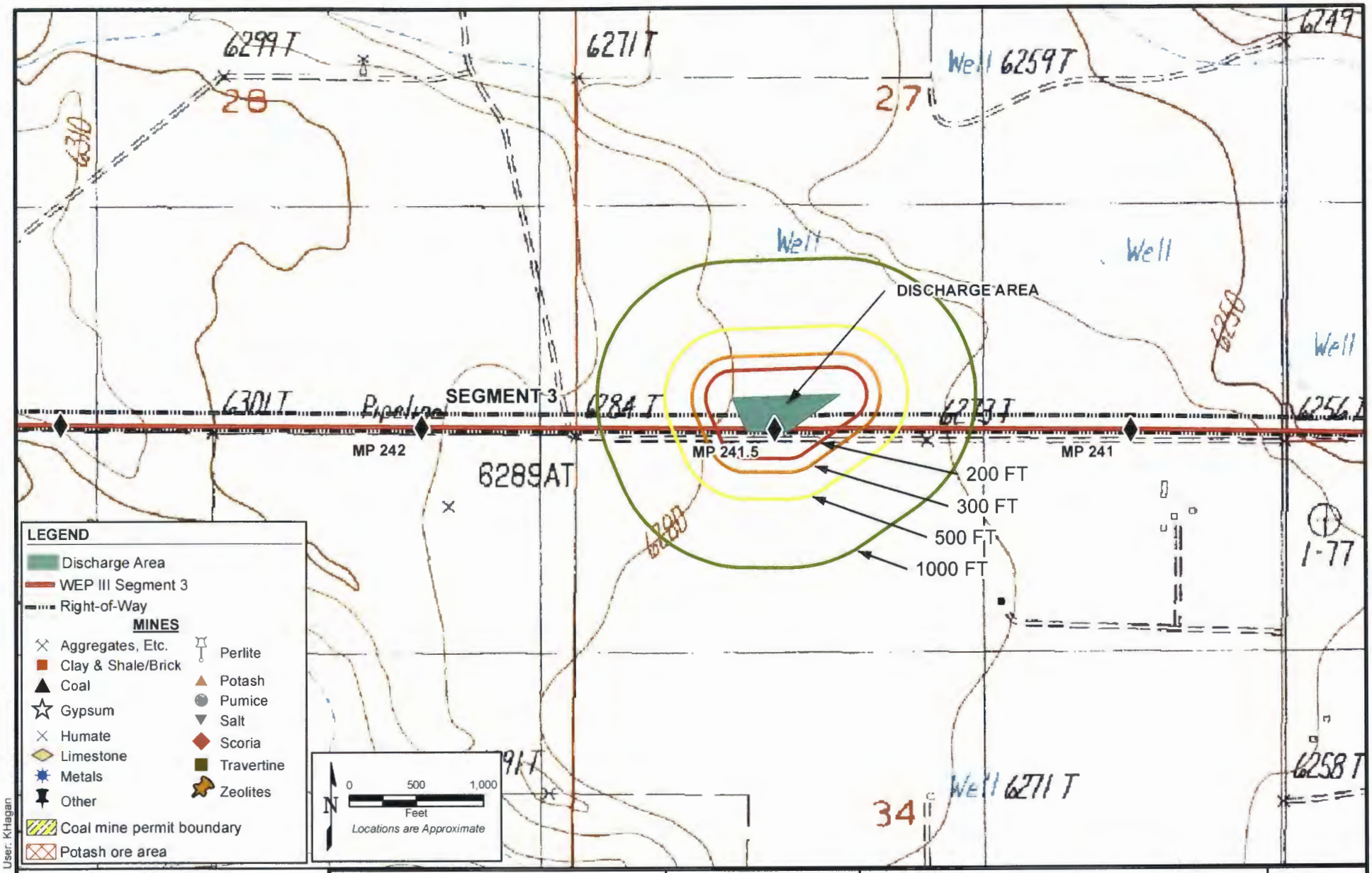
ORIGINATOR: K. HAGAN
APPROVED BY: ES 8/28/13

DRAWING CATEGORY: 1

FIGURE **B-3**

User: KHagan
Date: 8/19/2013

APPENDIX C
Area Mine Information



User: KHagan

Date: 8/15/2013

Sources:
SPREAD3_IFC_8470SEG3B_060313_CL.shp and
SPREAD3_IFC_8470SEG3B_060313_CROW.shp
provided by JFC Engineers & Surveyors on June 18, 2013
New Mexico Mining and Minerals Division, February 2012
National Hydrography Dataset, USGS
USGS 7.5' Topographic Quadrangle, Moriarty North, NM

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FILE NAME:	Seg3_FigureC1.mxd

ACTIVE MINING NEAR THE DISCHARGE AREA, WEP III SEGMENT 3

ENTERPRISE PRODUCTS OPERATING LLC
SANTA FE COUNTY, NEW MEXICO

ORIGINATOR: K. HAGAN
APPROVED BY: ES 8/28/13

DRAWING CATEGORY: 1

FIGURE
C-1

RE: Mines in Vicinity of Proposed Hydrostatic Testing

Tompson, Mike, EMNRD [Mike.Tompson@state.nm.us]

Sent: Friday, July 05, 2013 11:09 AM
To: Melissa Cote
Cc: Kretzmann, John, EMNRD [john.kretzmann@state.nm.us]

Melissa,

The New Mexico Abandoned Mine Land Program has no record of any abandoned mines in Section 27, Township 10 North, Range 8 East. We also have no record of mines in the adjoining sections.

Please let me know if you need anything else.

Mike

From: Melissa Cote [mailto:MCote@kleinfelder.com]
Sent: Wednesday, July 03, 2013 3:21 PM
To: Tompson, Mike, EMNRD
Subject: Mines in Vicinity of Proposed Hydrostatic Testing

Hi Mike,

I am working on a hydrostatic discharge plan for a different section of the Enterprise pipeline. We are required to research whether there are any mines in the vicinity of the proposed discharge area.

The discharge area is located at:

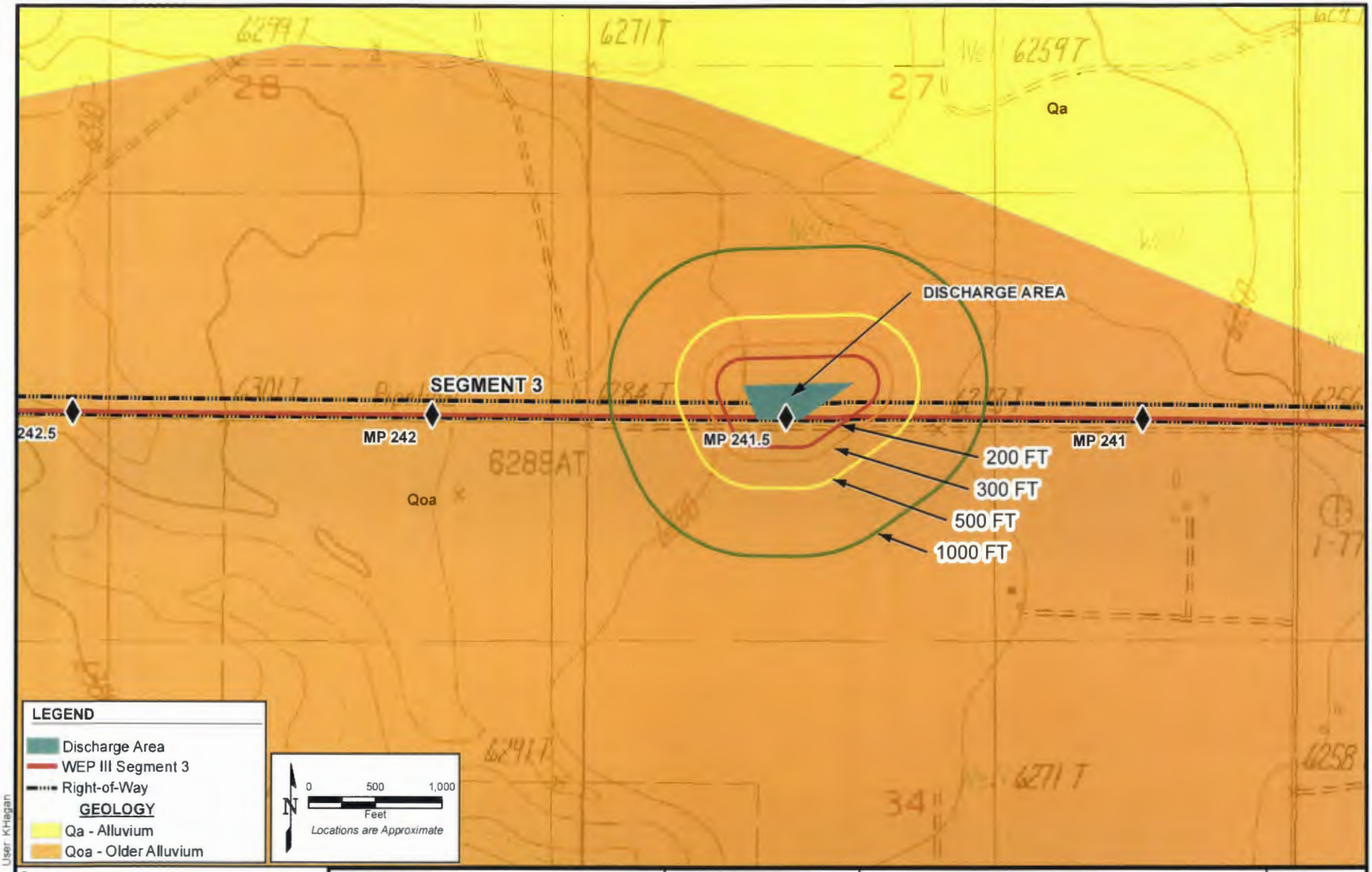
- southeast 1/4; southwest 1/4; section 27, T10N, R8E.
- latitude 35.055323, longitude -106.079792

Would you be able to tell us whether there are any mines within a 1/2 mile radius of this area?

Thank you and have a nice holiday,

Melissa Cote

APPENDIX D
Geology



Sources:
SPREAD3_IFC_8470SEG3B_060313_CL.shp and
SPREAD3_IFC_8470SEG3B_060313_CROW.shp
provided by JFC Engineers & Surveyors on June 18, 2013
USGS OFR 2005-21351
USGS 7.5' Topographic Quadrangle, Moriarty North, NM

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GEOLOGY IN THE VICINITY OF THE DISCHARGE AREA, WEP III SEGMENT 3

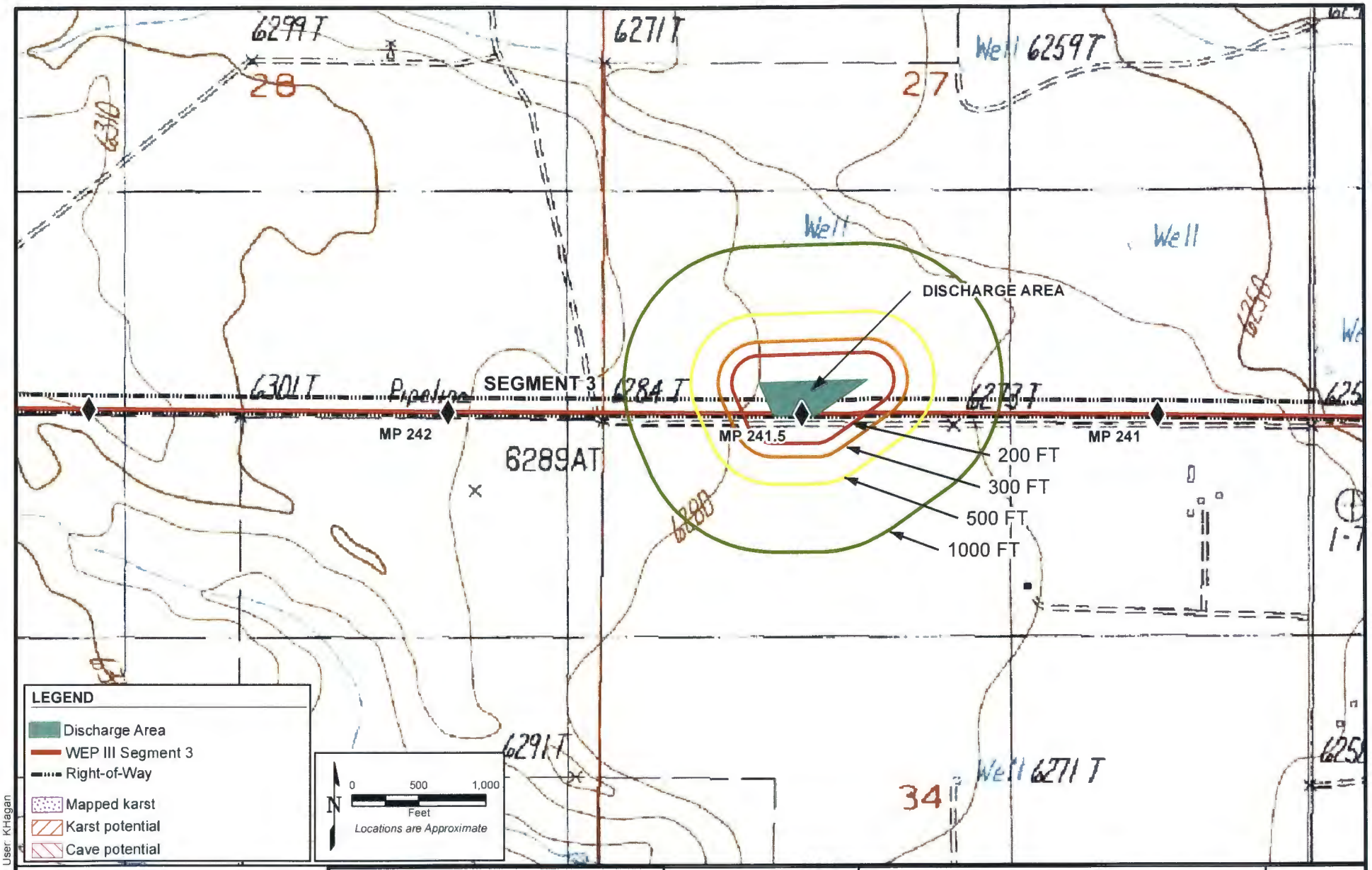
ENTERPRISE PRODUCTS OPERATING LLC
SANTA FE COUNTY, NEW MEXICO

ORIGINATOR: K. HAGAN
APPROVED BY: 8-28-13

DRAWING CATEGORY: 1

FIGURE
D-1

User: KHagan
Date: 8/15/2013



User: KHagan

Date: 8/15/2013

Sources:
SPREAD3_IFC_8470SEG3B_060313_CL.shp and
SPREAD3_IFC_8470SEG3B_060313_CROW.shp
provided by JFC Engineers & Surveyors on June 18, 2013
USGS OFR 2004-1352
New Mexico BLM GIS Basemap
USGS 7.5' Topographic Quadrangle, Moriarty North, NM

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KARST IN THE VICINITY OF THE DISCHARGE AREA, WEP III SEGMENT 3

ENTERPRISE PRODUCTS OPERATING LLC
SANTA FE COUNTY, NEW MEXICO

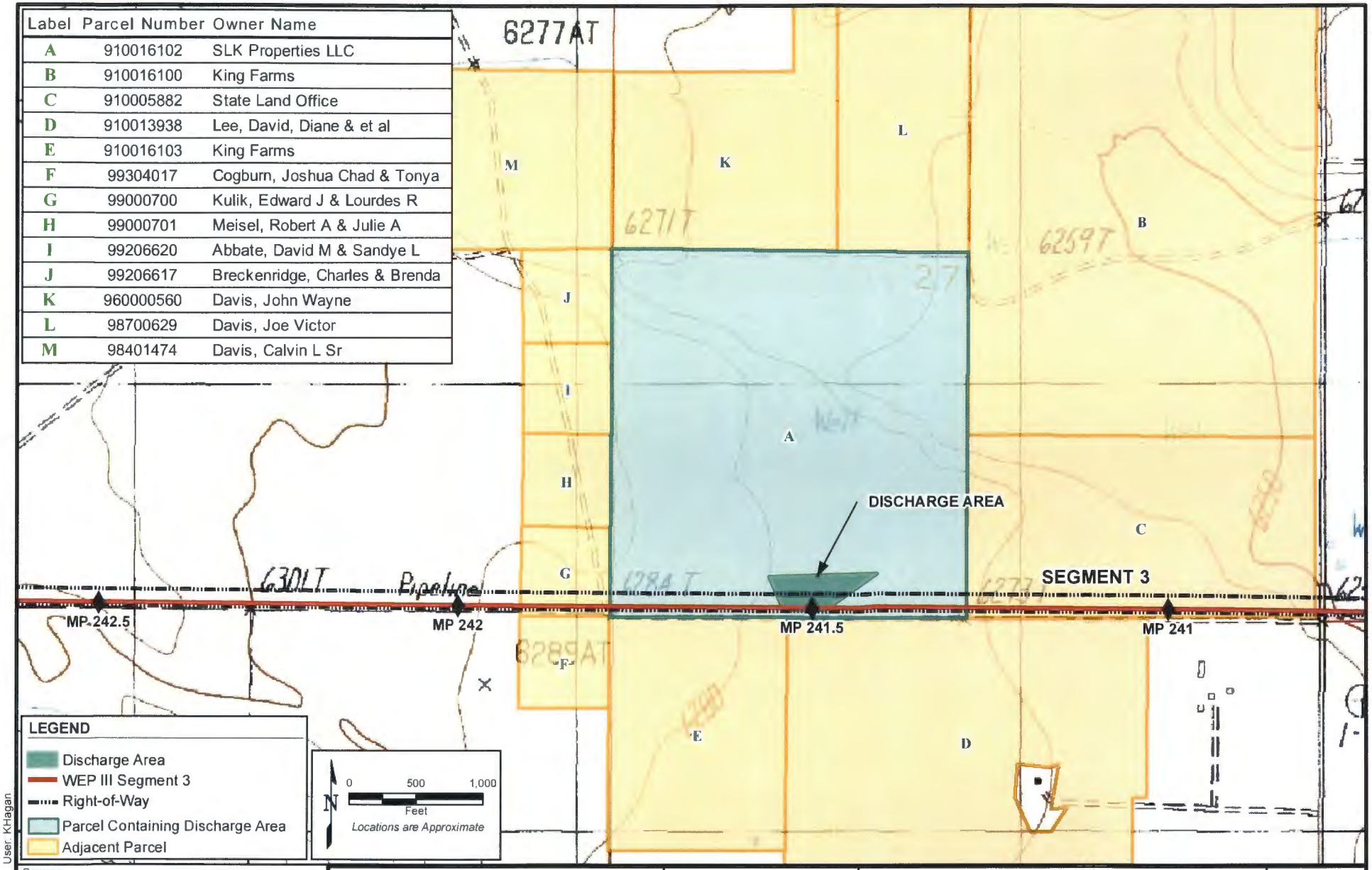
ORIGINATOR: K. HAGAN
APPROVED BY: ES 8-28-13

DRAWING CATEGORY: 1

FIGURE
D-2

APPENDIX E
Area Landownership

Label	Parcel Number	Owner Name
A	910016102	SLK Properties LLC
B	910016100	King Farms
C	910005882	State Land Office
D	910013938	Lee, David, Diane & et al
E	910016103	King Farms
F	99304017	Cogburn, Joshua Chad & Tonya
G	99000700	Kulik, Edward J & Lourdes R
H	99000701	Meisel, Robert A & Julie A
I	99206620	Abbate, David M & Sandye L
J	99206617	Breckenridge, Charles & Brenda
K	960000560	Davis, John Wayne
L	98700629	Davis, Joe Victor
M	98401474	Davis, Calvin L Sr



Sources:
SPREAD3_IFC_8470SEG3B_060313_CL.shp and
SPREAD3_IFC_8470SEG3B_060313_CROW.shp
provided by JFC Engineers & Surveyors on June 18, 2013
New Mexico BLM GIS dataset
National Hydrography Dataset, USGS
USGS 7.5' Topographic Quadrangle, Moriarty North, NM

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LAND OWNERSHIP IN THE VICINITY OF THE DISCHARGE AREA, WEP III SEGMENT 3

ENTERPRISE PRODUCTS OPERATING LLC
SANTA FE COUNTY, NEW MEXICO

ORIGINATOR: K. HAGAN
APPROVED BY:
DRAWING CATEGORY: 1

FIGURE
E-1

User: KHagan
Date: 8/16/2013

Enterprise Products™

P.O. Box 4324 Houston, Texas 77210-4324 713.381 6500
9420 West Sam Houston Parkway North Houston, Texas 77064 www.epplp.com

July 30, 2013

VIA HAND DELIVERY or CERTIFIED MAIL

SLK Properties, LLC a New Mexico Limited Liability Company
3195 B Highway 41
Moriarty, NM 87035

RE: Proposed Hydrostatic Water Discharge Site
MAPL – WEP III Project, 16 & 20 Inch Line
Tract Number: NM-SF-05
Santa Fe County, New Mexico

Dear Mr. King,

Mid-America Pipeline Company, LLC, a Delaware limited liability company ("MAPL"), operated by Enterprise Products Operating LLC, a Texas limited liability company (collectively referred to as "Enterprise") proposes to hydrostatically test approximately 34 miles of 16 and 20 inch proposed new pipeline. The proposed pipeline will cross through Bernalillo, Sandoval, Santa Fe and Torrance Counties in New Mexico. Approximately 850,000 gallons of water will be used for this test.

Upon completion of the test, Enterprise plans to discharge the test water onto the ground in Section 27, Township 10 North, Range 8 East, approximately 1.25 miles east of the Martin Road/Martin Lane intersection. The water will be discharged at an approximate rate of 1,500 gallons per minute into a dissipation structure of silt fence and straw bales and allowed to percolate on site. Discharge of the hydrostatic test water will be monitored by Enterprise personnel and its contractors. The test water will be discharged and tested in compliance within the guidelines of the Oil Conservation Division of the New Mexico Energy, Minerals, and Natural Resources Department. The discharge is scheduled to begin in September, upon completion of the pipeline construction and the hydrostatic testing.

The Oil Conservation Division of the New Mexico Energy, Minerals, and Natural Resources Department requires proof of landowner's consent prior to any hydrostatic water being discharged.

This letter, when executed, serves as proof of such consent to discharge test water on the particular property listed above within and/or outside Enterprise's pipeline right-of-way.

Should you have questions or require additional information, please feel free to contact me in writing at Mid-America Pipeline Company, LLC 4815 Hawkins NE Suite C-3, Albuquerque, New Mexico 87109 or by telephone at 713-392-2458.

Enterprise Products Operating LLC

James White
Sr. Environmental Scientist
Enterprise Products Operating LLC

Enterprise Products™

P.O. Box 4324 Houston, Texas 77210-4324 713.381 6500
9420 West Sam Houston Parkway North Houston, Texas 77064 www.epplp.com

Your signature indicates your approval to make application for discharge permit on/across your property.

X_____ **Dated:** 31 **day of** July **, 2013.**

X_____ _____
Witness:

APPENDIX F
Public Notice

PUBLIC NOTICE

The United States Department of Transportation (USDOT) requires periodic pressurized tests on all USDOT-regulated pipelines. Enterprise Products Operating LLC (Enterprise) hereby gives notice that the following discharge permit application has been submitted to the New Mexico Oil Conservation Division (NMOCD) in accordance with Subsection B, C, E, and F of 20.6.2.3108 New Mexico Administrative Code. The local Enterprise mailing address is: Enterprise Products Operating LLC, 614 Reilly Ave., Farmington, NM 87401.

The purpose of hydrostatic (testing with water) pipeline testing is to determine the extent to which potential defects might threaten the pipeline's ability to sustain maximum allowable operation pressure. The pipeline will be filled with water, and then pressurized to a pressure higher than the standard operating pressure for a specified duration of time.

Enterprise has submitted an application for hydrostatic test water discharge that will occur on the pipeline right-of-way (ROW) and onto the adjacent property to the north of the ROW at latitude 35.055273°, longitude -106.080531° in Santa Fe County, New Mexico. The location of the discharge is approximately 4 miles northwest of Moriarty, New Mexico. To reach the discharge location from Moriarty, from the intersection of NM-41 and NM-333 E: head north on NM-41 for 0.4 miles; turn east onto Abraham's/I-40 Frontage Rd for 1.6 miles; continue to north on Country Rd A 106/ Green Rd for 1.7 miles; continue onto Country Rd 21/ King Farm Rd for 1 mile; turn left onto an unnamed road and continue for 0.5 mile; and the discharge area will be on the right. The hydrostatic test is scheduled for September 25, 2013 with discharge of the test water scheduled for October 5, 2013.

The new piping, called the Western Expansion Pipeline (WEP) III Segment 3, will be hydrostatically tested. Up to 850,000 gallons of well water obtained from the King Irrigation well and will be piped to the new pipeline. Once the test has been completed, and prior to discharge, Enterprise will collect and analyze a sample of the water obtained from the end section of the pipeline. The sample will be analyzed for water quality. Upon NMOCD concurrence that the discharge water meets the water quality standards of NMAC 20.6.2.3103, or background levels, whichever is greater, Enterprise will discharge the water in accordance with the approved discharge permit. If discharge to the ground surface is approved, the water will be released from a pipeline and discharged to the dissipation and discharge system and allowed to flow onto ground surface within the ROW and onto the adjacent property north of the ROW (approved by landowner).

If test water exceeds discharge requirements, it will first be treated using electro-coagulation to remove constituents that exceed the discharge requirements. 400-barrel storage tanks will temporarily hold the treated water while a post-treatment sample is collected and submitted for laboratory analysis. The analytical results will be sent to NMOCD for approval and upon NMOCD concurrence that the discharge water meets the water quality standards of NMAC 20.6.2.3103, or background levels, whichever is greater, Enterprise will discharge the water in accordance with the approved discharge permit.

If after this treatment process, water still exceeds discharge requirements, it will be transported from the project site in DOT-approved tanker trucks by an NMOCD-approved hauler to an NMOCD-approved waste water disposal facility.

The shallowest groundwater likely to be affected by a leak or accidental discharge is found at depths of 30 to 188 feet below grade. Total dissolved solids concentration of 2,070 milligrams per kilogram is representative of the shallow aquifer in the discharge area. Water in the King well is considered to be the background water standard for the discharge site and the surrounding area.

The notice of intent and discharge plan outlines how produced water and waste will be properly managed, including handling, storage, and final disposition. The plan also includes procedures for the proper management of leaks, accidental discharges, and spills to protect the waters of the State of New Mexico.

For additional information, to be placed on a specific mailing list for future notices, or to submit comments please contact:

Brad Jones, Environmental Engineer
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505
Phone: 505.476.3487

The NM Energy, Minerals and Natural Resources Department will accept comments and statements of interest regarding this hydrostatic test and will provide future notices for this pipeline upon request.

AVISO PUBLICO

El Departamento de Transporte de los Estados Unidos (United States Department of Transportation, USDOT) requiere hacer pruebas (presurizadas) periódicamente en toda tubería regulada por USDOT. La compañía Enterprise Products Operating, LLC (Enterprise) da aviso por este medio que la siguiente aplicación de permiso de descarga ha sido sometida al New Mexico Oil Conservation Division (NMOCD) de acuerdo con las Sub-Sección B, C, E, y F del Código Administrativo de Nuevo México (New Mexico Administrative Code, NMAC, 20.6.2.3108). La dirección de correo local de la compañía Enterprise es: Enterprise Products Operating LLC, 614 Reilly Ave., Farmington, NM 87401.

El propósito de la prueba hidro-estática (prueba con agua) en la tubería es para evaluar el potencial de defectos que puedan afectar la habilidad de la tubería de sostener la máxima presión de operación permisible. La tubería será llenada con agua, y luego presurizada a una presión mayor a la presión de operación estándar por periodo de tiempo especificado.

Enterprise ha sometido una aplicación para descargar agua de pruebas hidro-estática que ocurrirá en el área de la servidumbre de paso y sobre la propiedad adyacente hacia el norte a una latitud de 35.055273°, y una longitud de -106.080531° en el Condado de Santa Fe, Nuevo México. El lugar de la descarga está aproximadamente 4 millas al noroeste de Moriarty, Nuevo México. Para llegar al lugar de la descarga desde Moriarty, desde la intersección de NM-41 y MN-333 E: viajar hacia el norte sobre NM 41 por 0.4 millas; dar vuelta hacia el este sobre la calle lateral Abraham's Road de I-40 por 1.6 millas; continuar hacia el norte sobre Country Rd A 106/ Green Rd por 1.7 millas; continuar sobre Country Rd 21/ King Farm Rd por 1 milla; dar vuelta a la izquierda sobre una calle sin nombre y continuar por 0.5 millas; y el área de descarga estará sobre la derecha. La prueba hidro-estática está programada para Septiembre 25, 2013 con la descarga del agua de prueba programada para Octubre 30, 2013.

La nueva tubería, llamada Western Expansion Pipeline (WEP) III, Segmento 3, será probada hidro-estáticamente. Hasta 850,000 galones de agua obtenida del pozo King (King Irrigation Well) y será transportada a la tubería nueva. Una vez que la prueba se haya completado, y antes de la descarga, Enterprise obtendrá y analizara una muestra de agua obtenida del extremo de la sección de tubería. La muestra será analizada para evaluar la calidad del agua. Una vez que NMOCD concurra que el agua de descarga cumple con los estándares de calidad de agua de NMAC 20.6.2.3103, o niveles de fondo de prueba, el que sea mayor, Enterprise descargara el agua de acuerdo con el permiso de descarga aprobado. Si descarga en la superficie del suelo es aprobado, el agua será desalojada de una tubería y el agua de prueba será descargada al sistema de descarga y permitida fluir sobre la superficie del suelo en el área de la servidumbre de paso de la tubería y sobre propiedad adyacente hacia el norte (aprobado por el dueño de la propiedad).

Si el agua de prueba excede los requisitos de descarga, será primero tratada usando electro-coagulación para remover componentes que excedan los requisitos de descarga. 400-barriles usados como tanques de almacén temporalmente guardaran el agua tratada hasta que la muestra de después de tratamiento sea obtenida y sometida para análisis de laboratorio. Los resultados analíticos serán enviados a NMOCD para ser aprobados y cuando NMOCD concurra que el agua de descarga tiene los estándares de calidad de agua de NMAC 20.6.2.3103, o niveles de fondo de prueba, el que sea mayor, Enterprise descargara el agua de acuerdo con el permiso de descarga aprobado.

Si después de este proceso de tratamiento, agua todavía excede los requisitos de descarga, será transportada del sitio del proyecto en camiones-pipa aprobados por el departamento de transporte por un transportista aprobado por NMOCD a un lugar aprobado por NMOCD para deshacerse del agua de prueba.

El nivel freático más cercano a la superficie del suelo que posiblemente pueda ser afectado por una fuga o descarga accidental es encontrado a una profundidad de 30 a 188 pies debajo de la superficie del suelo. Una concentración total de solidos disueltos de 2,070 miligramos por kilogramo es representativo del agua freática en el área de descarga. El agua en el pozo King es considerada el estándar de agua de fondo para la descarga del sitio y el área alrededor.

El aviso del plan de intención de descarga resume como el agua que se produzca será manejada, incluyendo su guardado y el proceso final para deshacerse del agua. El plan también incluye procesos para el manejo apropiado de fugas, descargas accidentales, y derrames para proteger las aguas del estado de Nuevo México (New Mexico).

Para información adicional, ser puesto en una lista de correo de particular a este proyecto, o para someter comentarios, favor de contactar:

Brad Jones, Environmental Engineer
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505
Teléfono: (505) 476-3487

El Departamento de NM de Energia, Minerales y Recursos Naturales (NM Energy, Minerales and Natural Resources Department) aceptará comentarios al respecto de esta prueba hidro-estática y proporcionará avisos futuros para esta tubería en base a petición.

APPENDIX G

Electro-Coagulation Process Information

Post-Hydrostatic Test Water On-Site Electrocoagulation Treatment

Introduction

The electro-coagulation (EC) process is one that uses an electrical current to coagulate organic constituents and suspended solids in water. The coagulated organics have the ability to adsorb ionic constituents which makes it possible to separate out a flocculent with the majority of suspended organics and some of the ionic constituents removed. (ITRC, 2013). At this site, it will be used to treat hydrostatic test water after the completion of testing and prior to discharge onto the ground surface.

EC Process

Water will be transferred from the pipeline with a pump and hose into two 21,000-gallon closed top weir tanks to allow for consistent volumes to feed supply pumps. The water will be pumped from the weir tanks to the water treatment system tank. The hydrostatic test water will be treated with a zero toxicity bio-polymer and will be run through a quad filtration vessel containing 80, 5-micron filtration socks. Material Data Safety Sheets for any chemical or additives used are attached. The water will then be pumped through a series of holding tanks and filtering systems, and then pumped with hoses and pipes into the water storage tanks. An illustration of the areas of secondary containment, EC treatment system, and the storage tanks is shown in Figure G-1. A detailed schematic of the EC treatment and filtration system setup is shown in Figure G-2.

As the water is processed through the treatment vessel, the system is continuously monitored for water pressure, pH, nephelometric turbidity units (NTU), flow rate and residual bio-fouling to ensure system is operating within specifications. As filtration cartridges are expended, the system is transferred to the secondary filtration system while maintenance is performed on the primary system. Treated water will be discharged by hose into approximately 51 interconnected, 400 barrel storage tanks. The water will be held in the storage tanks until analytical testing is conducted. Processing of the water through the EC system is anticipated to take approximately 3 days. All processing will occur within secondary containment and will occur in the pipeline ROW. The secondary containment is described under best management practices below

Solid waste generated as part of this process consists of a synthetic filtration socks with particulate matter generated during the filtration process. As the sock becomes full, it will be manually removed from the filtration unit and placed into 42-gallon drums located within the secondary containment.

Post-treatment Sampling

One composite water sample will be collected from the end of the EC treatment process for purposes of discharge approval. The sample will be a composite sample collected from the following intervals/tanks: 1,000 gallons (1st tank); 201,600 gallons (12th tank); 420,000 gallons (25th tank); 638,400 gallons (38th tank); and 850,000 gallons (51st tank). The sample will be submitted for laboratory analysis, as described in *item j*. Analytical testing is anticipated to take approximately 4 days to receive the results.

An additional four water samples will be collected from discharge point of the EC treatment process (prior to tanks). These samples will be collected to provide NMOCD with additional information on the efficacy of Industrial Dewatering International (IDI)'s newly presented technology. Samples will be collected at the following intervals: 1,000 gallons; 212,500 gallons; 425,000 gallon; and 637,000 gallons. Samples will be submitted for laboratory analysis, as

described in *item j*. Analytical testing is anticipated to take approximately 4 days to receive the results.

Once the results have been received, they will be forwarded to the NMOCD. Upon NMOCD concurrence that the discharge water meets the water quality standards of NMAC 20.6.2.3103, or background levels, whichever is greater, Enterprise will discharge the water as described in *item h*.

If the results do not meet the required water quality standards, the water will pumped from the storage tanks into water trucks, using a hose or temporary piping. Transportation and disposal of the water is described in *item k*.

Any solids generated during the EC process will be managed as described in *item k*.

Best management practices

Secondary containment will be designed to hold 1 1/3 of the total volume of the 51 water storage tanks. It will be comprised of hay or dirt berms approximately 4 feet high with plastic lining the bottom of the containment area and draped over the sides of the containment. The approximate dimensions of the containment are 327 feet long by 125 feet wide.

Each individual vessel of the EC treatment system will have its own secondary containment. The storage tanks and EC treatment system will be contained within a single containment area located in the ROW.

If the test water needs to be transferred to water trucks for disposal, drip pans will be placed under hose connections and valves to prevent leaks from reaching the ground surface. Valves will be present on the water tanks and at various transfer areas to stop the flow of water if needed. Personnel will be present during transfer operations to close valves in case of leaks. Personnel will be located in the surrounding area to conduct pipeline construction and maintenance activities and can help prevent vandalism to the water tanks. Visual inspections will be conducted while the hydrostatic test water is stored in the storage tanks to ensure the absence of leaks and damage due to vandalism.

Approximately five 42-gallon drums will be used to store the spent filtration socks. The drums will be sealed and will be left inside the secondary containment area, until the EC process is complete and the solids are transported off site for disposal.

Timeline

The anticipated timeline if post treated water is approved for discharge to the ground surface:

	Activity	**Duration**	**Cumulative Days**
1	Tested water in pipeline does not meet standards for discharge to the ground surface	0	0
2	Secondary containment constructed and tanks placed inside. IDW mobilizes to site and sets up system	7	7
3	Treatment of water through EC system	3	10
4	Collection and analysis of post – treatment water samples	4	14
5	EC system removed	1	15
6	Discharge approved by NMOCD	1	16

	Activity	Duration	Cumulative Days
7	Test water discharged to ground surface and drummed solids removed from disposal area	2	18
8	Empty storage tanks removed and secondary containment dismantled	7	25

The anticipated timeline if post treated water needs to be hauled off for disposal:

	Activity	Duration	Cumulative Days
1	Tested water in pipeline does not meet standards for discharge to the ground surface	0	0
2	Secondary containment constructed and tanks placed inside. IDW mobilizes to site and sets up system	7	7
3	Treatment of water through EC system	3	10
4	Collection and analysis of post – treatment water samples	4	14
5	EC system removed	1	15
6	Test water cannot be discharged	0	15
7	Test water is transferred into water trucks and hauled offsite for disposal. Drummed solids removed for disposal	3	18
8	Empty storage tanks removed and secondary containment dismantled	7	25

Closure Plan

Upon completion of the treatment, the EC system will be removed from the site. Once the water in the storage tanks has been removed, the storage tanks will be dismantled and removed from the site. The drummed solids will be removed for disposal and the secondary containment will be dismantled. The site will be returned to preconstruction contours, as was present prior to hydrostatic test discharge.

References

Interstate Technology Regulatory Council (ITRC), 2013, Technology Overview as Part of a Web-based Technical and Regulatory Guidance, Electrocoagulation, http://www.itrcweb.org/miningwaste-guidance/to_electrocoagulation.htm.

HALOSOURCE

Date: 7/24/2012
Revision: 00

Material Safety Data Sheet

HaloKlear: DBP-2100

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Manufacturer's Name:	HaloSource, Inc.
Corporate Address:	1631 220th St. SE, Suite 100, Bothell, WA 98021
Manufacturer's Telephone:	(425) 881-6464 (Monday-Friday, 8AM-5PM PDT)
Emergency Telephone (24 Hours):	800-424-9300 CHEMTREC (Domestic, North America) 703-527-3887 CHEMTREC (International, collect calls accepted)
Material/Trade/Product Name:	**HaloKlear: DBP-2100**
Synonyms:	Poly X Socks
Chemical Name:	Proprietary
Chemical Formula:	Proprietary
CAS No.:	Proprietary
EPA Registration #:	Not applicable
Product Use:	Flocculant

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

CAS NO.	COMPONENT	%	OSHA HAZARDOUS?
Trade Secret	*Trade Secret*	*Trade Secret*	YES

NOTE: See Section 8 for permissible exposure limits.

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Off-white to tan, odorless powder.

May cause irritation to eyes and respiratory tract. May cause drying or chapping or skin.

WARNING! Can contain sufficient fines to cause a combustible dust explosion. Product will burn when in contact with a flame. See Section 5 Fire Fighting Measures for more information.

POTENTIAL HEALTH EFFECTS

EYE: Dry powder may cause foreign body irritation in some individuals.

SKIN: Prolonged contact with the dry powder may cause drying or chapping.

INHALATION: Hygroscopic properties of the product can form a paste or gel in the airway. Inhalation of dust may cause respiratory tract irritation. Excessive inhalation of dust may cause coughing and sneezing.

INGESTION: Not toxic if swallowed (less than a mouthful) based on available information.

CHRONIC EXPOSURE/CARCINOGENICITY: None of the components present in this material at concentrations of equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

AGGRAVATION OF PRE-EXISTING CONDITIONS: None known.

POTENTIAL ENVIRONMENTAL EFFECTS: Contains no substances known to be hazardous to the environment.

SECTION 4: FIRST AID MEASURES

FIRST AID PROCEDURES

EYE CONTACT: Remove contact lenses (if applicable), flush with water for 15 minutes. Call a physician.

SKIN CONTACT: Cleansing the skin after exposure is advisable.

INHALATION: If large amounts are inhaled, remove to fresh air and consult a physician.

INGESTION: Consult a physician if necessary.

NOTE TO PHYSICIANS: None.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT: Not applicable
UPPER FLAMMABLE LIMIT: Not available
FLAMMABLITY CLASS (OSHA): Not applicable
AUTOIGNITION TEMPERATURE: Not available
LOWER FLAMMABLE LIMIT: Not available
FLAME PROPAGATION/BURNING RATE: Not available

UNIQUE FIRE PROPERTIES: Combustible dust which can contain sufficient fines to cause a combustible dust explosion.

HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide, carbon monoxide.

EXTINGUISHING MEDIA: Water, dry chemical, carbon dioxide.

PROTECTION OF FIREFIGHTERS: Treat as a "Class A" fire. Product will burn when in contact with a flame. Self extinguishers when ignition source is removed. Tends to smolder. As in any fire, wear self-contained breathing apparatus pressure-demand, and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTIVE EQUIPMENT: See Section 8 (Personal Protective Equipment).

ENVIRONMENTAL PRECAUTIONS: None known.

METHODS FOR CLEANING UP: Wet material on walking surfaces will be extremely slipper. Avoid dust formation. Use equipment designed specifically for combustible dust. Take precautionary measures against static discharges.

SECTION 7: HANDLING AND STORAGE

SAFE *HANDLING* RECOMMENDATIONS

VENTILATION: Avoid dust formation. Provide appropriate exhaust ventilation in places where dust is formed.

FIRE PREVENTION: Product may form combustible dust-air mixtures. Keep away from heat, flames, sparks, and other ignition sources. Avoid emptying package in or near flammable vapors. Static charges may cause flash fire.

SPECIAL HANDLING REQUIREMENTS: Remove material from eyes, skin and clothing.

SAFE *STORAGE* RECOMMENDATIONS

CONTAINMENT: No special containment needed.

STORAGE ROOM RECOMMENDATIONS: Store in a cool, dry, well-ventilated area away from direct heat.

INCOMPATIBLE MATERIALS: Strong oxidizing agents.

STORAGE CONDITIONS: Store in cool, dry place. Keep container closed when not in use; keep out of the reach of children.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits in this section.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

EYE/FACE PROTECTION: This product does not cause significant eye irritation or eye toxicity requiring special protection. Where there is significant potential for eye contact, wear chemical goggles and have eye flushing equipment available.

SKIN PROTECTION: Although this product does not present a significant skin concern, minimizes skin contamination by following good industrial practice.

HAND PROTECTION: Chemical resistant gloves are recommended to minimize potential irritation from handling.

RESPIRATORY PROTECTION: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. Respirator use is not required for this product.

GOOD HYGEIENE/WORK PRACTICES: Always follow good hygiene/work practices by avoiding vapors or mists and contact with eyes and skin. Thoroughly wash hands after handling and before eating or drinking. Always wear the appropriate PPE when repairing or performing maintenance on contaminated equipment.

EXPOSURE GUIDELINES

PERMISSIBLE EXPOSURE LIMITS			
INGREDIENT	OSHA	WISHA	ACGIH (TLV)

CAS NO.	TWA	STEL	TWA	STEL	TWA	STEL
Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

COLOR: Off white to tan
PHYSICAL FORM: Solid, powder
pH: Approximately neutral (1% solution)
VAPOR DENSITY: Not known
MELTING POINT: Not known
SOLUBILITY IN WATER: Fully soluble
SHAPE: Powder
ODOR: Odorless
VAPOR PRESSURE: Not known
BOILING POINT: Not known
FREEZING POINT: Not known
SPECIFIC GRAVITY OR DENSITY: Not known

NOTE: These physical data are typical values based on material tested but may vary from sample to sample. Values should not be construed as a guaranteed analysis of any specific lot or as specifications.

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under recommended storage conditions

CONDITIONS TO AVOID: Avoid dust formation

MATERIALS TO AVOID (INCOMPATIBILITY): Strong oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide

HAZARDOUS POLYMERIZATION: Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

ORAL LD_{50} (rat): >5,000 mg/kg

DERMAL LD_{50} (rabbit): Not available

DERMAL LD_{50} (rat): Not available

SKIN IRRITATION: Non-irritating (rabbit)

EYE IRRITATION: Non-irritating (rabbit)

SKIN SENSITIZATION: No skin allergy observed in gui8nea pig following repeated skin exposure

ADDITIONAL INFORMATION: The dry powder may cause foreign body irritation in some individuals. Prolonged contact with the dry powder may cause drying or chapping of the skin. Excessive inhalation of dust may be annoying and can mechanically impede respiration. Due to the hygroscopic properties, they can form a paste or gel in the airway.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

MOBILITY: Not available

PERSISTENCE AND DEGRADABILITY: This product is biodegradable.

BIOACCUMULATIVE POTENTIAL: Inherently biodegradable.

ADDITIONAL INFORMATION:

- 96 Hour Acute Survival
  - Rainbow Trout: LC_{50} 491 mg/L, LC_{25} 347 mg/L
  - Fathead Minnow: LC_{50} 1110 mg/L, LC_{25} 678 mg/L

- 7-Day Chronic Survival and Growth
  - Rainbow Trout: LC_{50} 510 mg/L, LC_{25} 390 mg/L
  - Fathead Minnow: LC_{50} 605 mg/L, LC_{25} 443 mg/L
  - Ceriodaphnia Dubia: LC_{50} 352 mg/L, LC_{25} 289 mg/L

- Rainbow Trout (Biomass): LC_{50} 386 mg/L, LC_{25} 262 mg/L
- Fathead Minnow (Biomass): LC_{50} 505 mg/L, LC_{25} 256 mg/L

SECTION 13: DISPOSAL CONSIDERATIONS

If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

NOTE: Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (DOT):

Proper Shipping Name:	Not Regulated
Hazard Class:	Not Regulated
Identification Number (UN Number):	Not Regulated
Packing Group (PG):	Not Regulated

SECTION 15: REGULATORY INFORMATION

TSCA STATUS: Component(s) listed

CERCLA REPORTABLE QUANTITY (RQ):

CHEMICAL NAME	RQ
Not applicable	Not applicable

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (EHS):

CHEMICAL NAME	TPQ	RQ
Not applicable	Not applicable	Not applicable

SARA TITLE III SECTION 311/312 HAZARD CATEGORIES: Does this product/material meet the definition of the following hazard classes according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of SARA Title III?

ACUTE HEALTH HAZARD	CHRONIC HEALTH HAZARD	FIRE HAZARD	REACTIVE HAZARD	SUDDEN RELEASE OF PRESSURE
YES	NO	YES	NO	NO

SARA TITLE III SECTION 313 TOXIC CHEMICALS INFORMATION:

CHEMICAL NAME	CAS NO.	CONCENTRATION (%)
Not applicable	Not applicable	Not applicable

CALIFORNIA PROPOSITION 65: The following chemical(s) is/are known to the state of California to cause cancer or reproductive toxicity:

CHEMICAL NAME	CAS NO.	CONCENTRATION (%)
Not applicable	Not applicable	Not applicable

SECTION 16: OTHER INFORMATION

REVISION INFORMATION:
MSDS sections(s) changed since last revision of document:

- None, this is a new MSDS.

DISCLAIMER:
****
The above information is based upon information HaloSource, Inc. believes to be reliable and is supplied for informational purposes only. HaloSource, Inc. disclaims any liability for damage which results from the use of the above information and nothing contained therein shall constitute a guarantee, warranty (including fitness for a particular purpose) or representation with respect to the accuracy or completeness of the data, the product described or their use for any specific purpose even if that purpose is known to HaloSource, Inc. The final determination of the suitability of the information, the manner of use of the information or product and potential infringement is the sole responsibility of the user.
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MSDS PREPARED BY: Jeremy Heath, EH&S Manager

HALOSOURCE

Date: 9/27/2011
Revision: 00

Material Safety Data Sheet

HaloKlear: Gel-Floc

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Manufacturer's Name:	HaloSource, Inc.
Corporate Address:	1631 220th St. SE, Suite 100, Bothell, WA 98021
Manufacturer's Telephone:	(425) 881-6464 (Monday-Friday, 8AM-5PM PDT)
Emergency Telephone (24 Hours):	800-424-9300 CHEMTREC (Domestic, North America) 703-527-3887 CHEMTREC (International, collect calls accepted)
Material/Trade/Product Name:	**HaloKlear: Gel-Floc MB**
Synonyms:	Chitosan Lactate
Chemical Name:	Chitosan, 2-hydroxypropanoate (salt)
Chemical Formula:	Not available
CAS No.:	66267-50-3
Product Use:	Flocculates soil contamination in storm water.

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

CAS NO.	HAZARDOUS INGREDIENT (S)	%	OSHA HAZARDOUS?
Trade Secret	*Trade Secret*	85 – 95	YES
Trade Secret	*Trade Secret*	15 – 5	YES

NOTE: See Section 8 for permissible exposure limits.

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

A fine, off-white powder with no odor.

This material/product may cause eye or skin irritation.

POTENTIAL HEALTH EFFECTS

EYE: May cause mechanical irritation. Will tend to form film on the surface of the eye causing blurred vision.

SKIN: Possible skin irritation or rash.

INHALATION: May aggravate pre-existing respiratory conditions or allergies. It may accumulate on linings of the nose and lungs resulting in dryness & coughing.

INGESTION: While it is not likely to be hazardous by ingestion, it may start dissolving and form a film on mucous membranes.

CHRONIC EXPOSURE/CARCINOGENICITY: Not known.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: May cause mechanical irritation. Will tend to form film on the surface of the eye causing blurred vision. Skin irritation. It may accumulate on linings of the nose and lungs resulting in dryness & coughing. May start dissolving and form a film on mucous membranes.

AGGRAVATION OF PRE-EXISTING CONDITIONS: May aggravate pre-existing respiratory conditions or allergies.

POTENTIAL ENVIRONMENTAL EFFECTS: Avoid water if material is spilled; water will dissolve chitosan lactate forming a thick viscous solution or gelatinous mass.

SECTION 4: FIRST AID MEASURES

FIRST AID PROCEDURES

EYE CONTACT: Remove contact lenses (when applicable) and flush eyes with water for 15 minutes. Get medical attention if irritation persists.

SKIN CONTACT: Wash with soap and water. Get medical attention if irritation develops or persists.

INHALATION: If exposed to excessive levels of dust, remove to fresh air and get medical attention if cough or other symptoms develop.

INGESTION: Never give anything by mouth to an unconscious person. If swallowed, do not induce vomiting. Give large quantities of water. If available give several glasses of milk. Call a physician or poison control center immediately.

NOTE TO PHYSICIANS: None.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT: Not available
UPPER FLAMMABLE LIMIT: Not available
FLAMMABLITY CLASS (OSHA): Not applicable
AUTOIGNITION TEMPERATURE: Not available
LOWER FLAMMABLE LIMIT: Not available
FLAME PROPAGATION/BURNING RATE: Not available

UNIQUE FIRE PROPERTIES: Keep away from oxidizing agents and avoid open flames. Product may ignite at temperatures in excess of 400°F. Depending on moisture content and particle size, airborne dust of Chitosan lactate might explode in the presence of an ignition source. It is comparable to flour and wood dust.

HAZARDOUS COMBUSTION PRODUCTS: None known

EXTINGUISHING MEDIA: Water spray, CO_2 (carbon dioxide), foam or dry chemical.

PROTECTION OF FIREFIGHTERS: Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coat, gloves and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus. Water may be used to keep fire-exposed containers cool until fire is out.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTIVE EQUIPMENT: See Section 8 (Personal Protective Equipment).

ENVIRONMENTAL PRECAUTIONS: AVOID WATER; water will dissolve chitosan lactate forming a thick viscous solution or gelatinous mass.

METHODS FOR CLEANING UP: The material may be vacuumed or collected for recovery or disposal.

SECTION 7: HANDLING AND STORAGE

SAFE *HANDLING* RECOMMENDATIONS

VENTILATION: Use with adequate ventilation.

FIRE PREVENTION: No special requirements.

SPECIAL HANDLING REQUIREMENTS: None.

SAFE *STORAGE* RECOMMENDATIONS

CONTAINMENT: Keep container closed when not in use.

STORAGE ROOM RECOMMENDATIONS: Store in cool, dry areas and away from incompatible substances.

INCOMPATIBLE MATERIALS: Strong oxidizing agents.

STORAGE CONDITIONS: Store in cool, dry areas and away from incompatible substances.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: No special ventilation is required. None required under normal conditions of use.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

EYE/FACE PROTECTION: For operations where eye contact can occur, wear safety glasses.

SKIN PROTECTION: For operations where skin contact can occur, wear impervious rubber or neoprene apron.

HAND PROTECTION: For operations where hand contact can occur, wear impervious rubber or neoprene gloves.

RESPIRATORY PROTECTION: If dust is generated, a dust mask may be needed. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

GOOD HYGEIENE/WORK PRACTICES: Always follow good hygiene/work practices by avoiding vapors or mists and contact with eyes and skin. Thoroughly wash hands after handling and before eating or drinking. Always wear the appropriate PPE when repairing or performing maintenance on contaminated equipment.

EXPOSURE GUIDELINES

PERMISSIBLE EXPOSURE LIMITS						
INGREDIENT CAS NO.	OSHA		WISHA		ACGIH (TLV)	
	TWA	STEL	TWA	STEL	TWA	STEL

Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

COLOR: Off-white.
PHYSICAL FORM: Fine powder.
pH: Not available
VAPOR DENSITY: Not available
MELTING POINT: Not available
SOLUBILITY IN WATER: Soluble
SHAPE: Fine powder.
ODOR: None
VAPOR PRESSURE: Not available
BOILING POINT: Not available
FREEZING POINT: Not available
SPECIFIC GRAVITY OR DENSITY: Not available

NOTE: These physical data are typical values based on material tested but may vary from sample to sample. Values should not be construed as a guaranteed analysis of any specific lot or as specifications.

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable.

CONDITIONS TO AVOID: None known.

MATERIALS TO AVOID (INCOMPATIBILITY): Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

HAZARDOUS POLYMERIZATION: Not known.

SECTION 11: TOXICOLOGICAL INFORMATION

ORAL LD_{50} (mice): >10g/kg

DERMAL LD_{50} (rabbit): Not available.

SKIN IRRITATION: Not available.

EYE IRRITATION: Not available.

SKIN SENSITIZATION: Not available.

ADDITIONAL INFORMATION: Not available.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY (in water):

Acute Toxicity

- Daphnia: LC50 – 135 mg/L
- Daphnia: LC25 – Not Calculable
- Fathead Minnows: LC50 – 22.8 mg/L
- Fathead Minnows: LC25 – 16.9 mg/L

- Rainbow Trout: LC50 – 6.4 mg/L
- Rainbow Trout: LC25 – 4.4 mg/L

Chronic Toxicity
- Rainbow Trout: LC50 (survival) – 5.3 mg/L, 7 days
- Rainbow Trout: LC25 (survival) – 4.8 mg/L, 7 days
- Rainbow Trout: EC25 (biomass) – 3.5 mg/L, 7 days
- Fathead Minnows: LC50 (survival) – 25.4 mg/L, 7 days
- Fathead Minnows: LC25 (survival) – Not Calculable
- Fathead Minnows: EC25 (biomass) – 13.9 mg/L, 7 days

MOBILITY: Not available.

PERSISTENCE AND DEGRADABILITY: Not available.

BIOACCUMULATIVE POTENTIAL: Not available.

ADDITIONAL INFORMATION: Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

NOTE: Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (DOT):

Proper Shipping Name:	Not Regulated
Hazard Class:	Not Regulated
Identification Number (UN Number):	Not Regulated
Packing Group (PG):	Not Regulated

SECTION 15: REGULATORY INFORMATION

TSCA STATUS: Listed

CERCLA REPORTABLE QUANTITY (RQ):

CHEMICAL NAME	RQ
Not applicable	Not applicable

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (EHS):

CHEMICAL NAME	TPQ	RQ

Not applicable	Not applicable	Not applicable

SARA TITLE III SECTION 311/312 HAZARD CATEGORIES: Does this product/material meet the definition of the following hazard classes according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of SARA Title III?

ACUTE HEALTH HAZARD	CHRONIC HEALTH HAZARD	FIRE HAZARD	REACTIVE HAZARD	SUDDEN RELEASE OF PRESSURE
YES	NO	NO	NO	NO

SARA TITLE III SECTION 313 TOXIC CHEMICALS INFORMATION:

CHEMICAL NAME	CAS NO.	CONCENTRATION (%)
Not applicable	Not applicable	Not applicable

CALIFORNIA PROPOSITION 65: The following chemical(s) is/are known to the state of California to cause cancer or reproductive toxicity:

CHEMICAL NAME	CAS NO.	CONCENTRATION (%)
Not applicable	Not applicable	Not applicable

SECTION 16: OTHER INFORMATION

REVISION INFORMATION:
MSDS sections(s) changed since last revision of document:

- None, this is a new MSDS.

DISCLAIMER:

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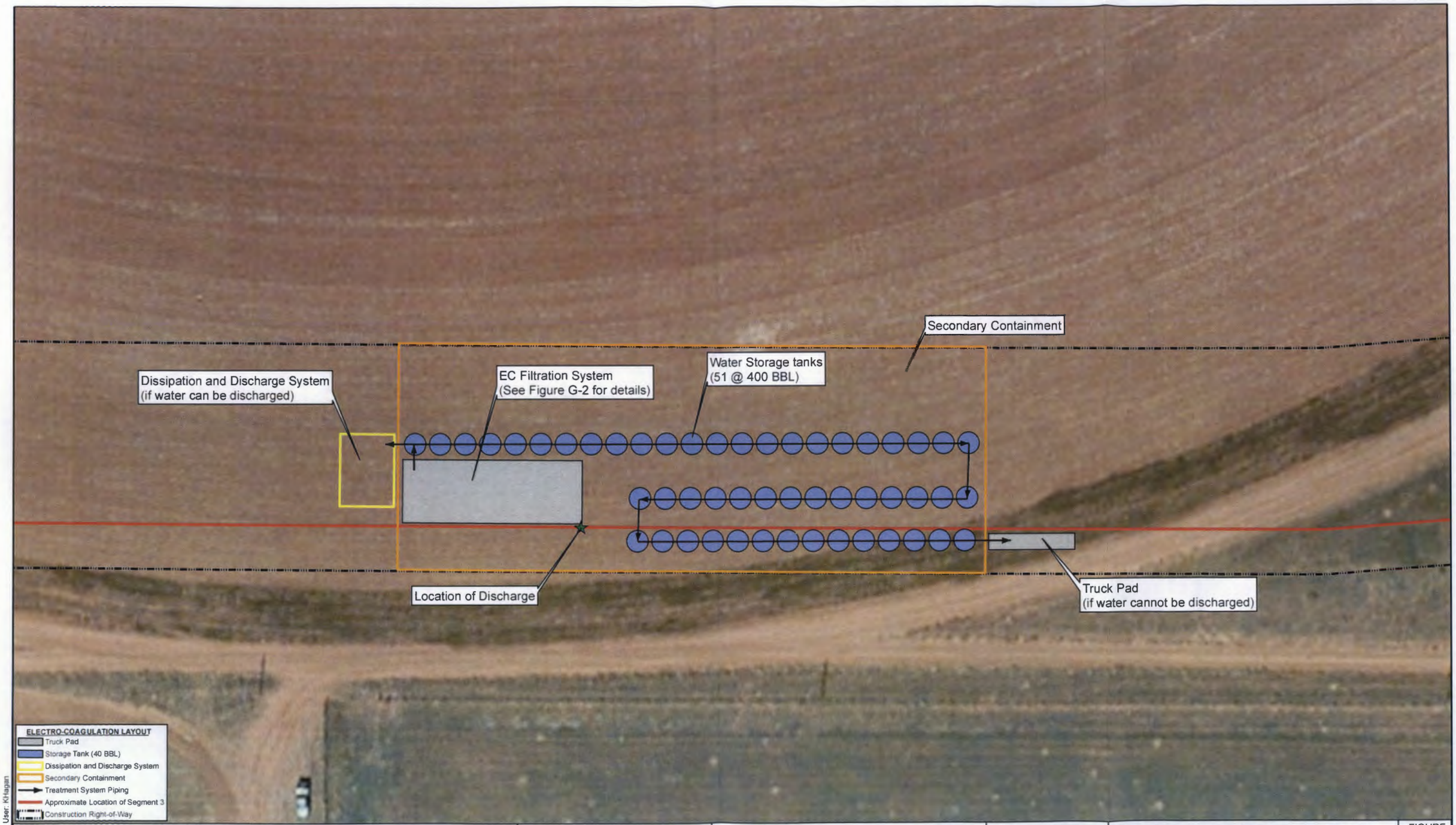
MSDS PREPARED BY: Jeremy Heath, EH&S Manager



Source: ESRI World Imagery: ESRI, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community. Date of image: 03/23/2011
SPREAD3_IFC_8470SEG3B_060313_CL.shp, SPREAD3_IFC_8470SEG3_060313_CROW.shp provided by JFC Engineers & Surveyors on June 18, 2013

N

25 0 25 50
Feet

Locations are Approximate

KLEINFELDER
Bright People. Right Solutions.
www.kleinfelder.com

PROJECT NO.:	134288
DRAWN:	AUG 2013
DRAWN BY:	KFH
CHECKED BY:	ES
FILE NAME:	Seg3_FigureG1.mxd

ELECTRO-COAGULATION TREATMENT AND DISCHARGE LOCATION, WEP III SEGMENT 3

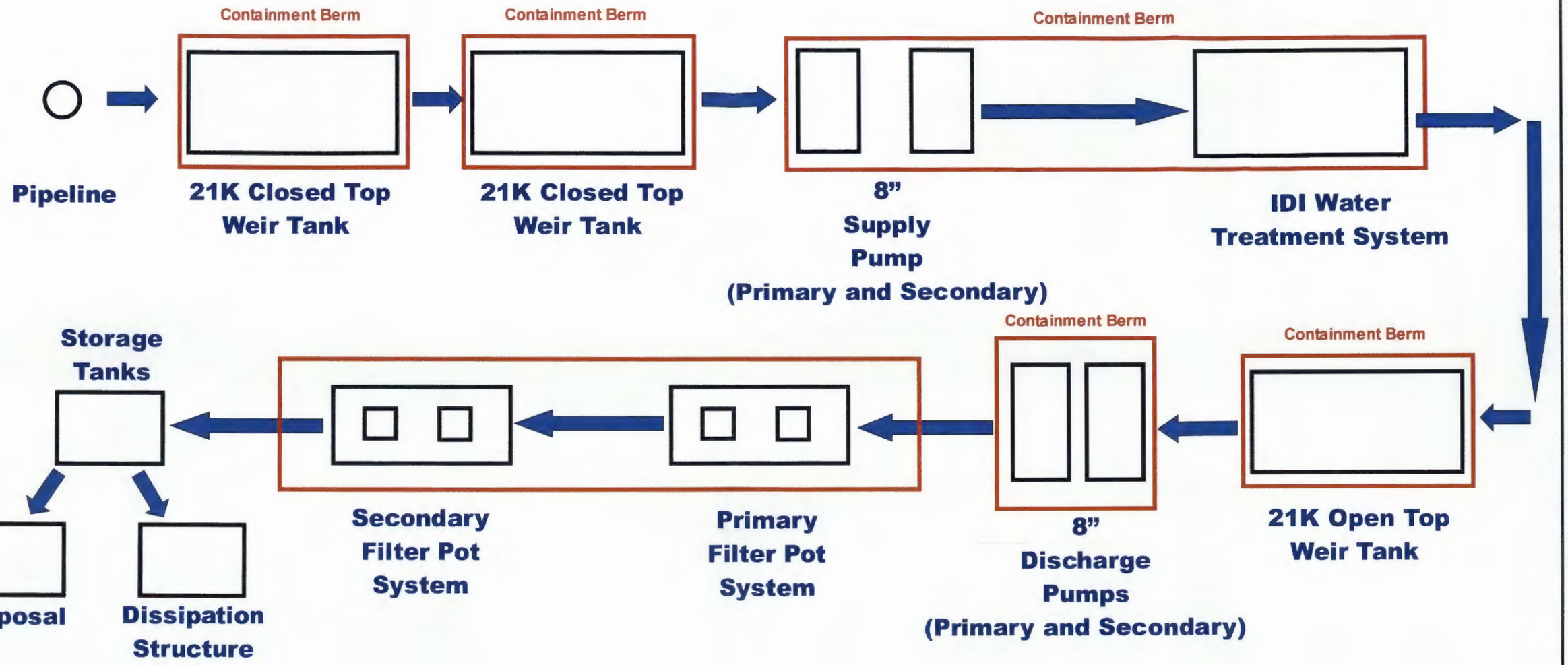
ENTERPRISE PRODUCTS OPERATING LLC
SANTA FE COUNTY, NEW MEXICO

ORIGINATOR: K. HAGAN
APPROVED BY: [illegible] 8-28-13

DRAWING CATEGORY: 1

FIGURE **G-1**

User: KHagan
Date: 8/22/2013



Source: IDI; Process Diagram, Hydrostatic Pipeline Water Filtration, Enterprise Products, dated 07/16/13.

KLEINFELDER
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PROJECT NO.:	134288
DRAWN:	AUG 2013
DRAWN BY:	KFH
CHECKED BY:	ES
FILE NAME:	Seg3_FigureG2.mxd

PROCESS DIAGRAM
ELECTRO-COAGULATION FILTRATION SYSTEM

ENTERPRISE PRODUCTS OPERATING LLC
SANTA FE COUNTY, NEW MEXICO

ORIGINATOR: K. HAGAN
APPROVED BY: ES 8-28-13

DRAWING CATEGORY: 1

FIGURE
G-2

Date: 8/22/2013 User: KHagan

APPENDIX H

King Well Analytical Data

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

May 08, 2013

Kay Lambert
HRL Compliance Solutions
2385 F 1/2 Road
Grand Junction, CO 81505
TEL: (970) 243-3271
FAX:

RE: Enterprise WEP III Water Sampling OrderNo.: 1304515

Dear Kay Lambert:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/11/2013 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1304515**
Date Reported: **5/8/2013**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HRL Compliance Solutions
Client Sample ID: Bill King Well
Project: Enterprise WEP III Water Sampling
Collection Date: 4/11/2013 2:30:00 PM
Lab ID: 1304515-001
Matrix: AQUEOUS
Received Date: 4/11/2013 4:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8011/504.1: EDB						Analyst: **LRW**
1,2-Dibromoethane	ND	0.010		µg/L	1	4/15/2013 8:23:57 PM
EPA METHOD 8082: PCB'S						Analyst: **SCC**
Aroclor 1016	ND	1.0		µg/L	1	4/16/2013 10:16:44 PM
Aroclor 1221	ND	1.0		µg/L	1	4/16/2013 10:16:44 PM
Aroclor 1232	ND	1.0		µg/L	1	4/16/2013 10:16:44 PM
Aroclor 1242	ND	1.0		µg/L	1	4/16/2013 10:16:44 PM
Aroclor 1248	ND	1.0		µg/L	1	4/16/2013 10:16:44 PM
Aroclor 1254	ND	1.0		µg/L	1	4/16/2013 10:16:44 PM
Aroclor 1260	ND	1.0		µg/L	1	4/16/2013 10:16:44 PM
Surr: Decachlorobiphenyl	107	23.9-124		%REC	1	4/16/2013 10:16:44 PM
Surr: Tetrachloro-m-xylene	76.4	28.1-139		%REC	1	4/16/2013 10:16:44 PM
EPA METHOD 8310: PAHS						Analyst: **SCC**
Naphthalene	ND	2.0		µg/L	1	4/17/2013 1:48:48 AM
1-Methylnaphthalene	ND	2.0		µg/L	1	4/17/2013 1:48:48 AM
2-Methylnaphthalene	ND	2.0		µg/L	1	4/17/2013 1:48:48 AM
Acenaphthylene	ND	2.5		µg/L	1	4/17/2013 1:48:48 AM
Acenaphthene	ND	5.0		µg/L	1	4/17/2013 1:48:48 AM
Fluorene	ND	0.80		µg/L	1	4/17/2013 1:48:48 AM
Phenanthrene	ND	0.60		µg/L	1	4/17/2013 1:48:48 AM
Anthracene	ND	0.60		µg/L	1	4/17/2013 1:48:48 AM
Fluoranthene	ND	0.30		µg/L	1	4/17/2013 1:48:48 AM
Pyrene	ND	0.30		µg/L	1	4/17/2013 1:48:48 AM
Benz(a)anthracene	ND	0.070		µg/L	1	4/17/2013 1:48:48 AM
Chrysene	ND	0.20		µg/L	1	4/17/2013 1:48:48 AM
Benzo(b)fluoranthene	ND	0.10		µg/L	1	4/17/2013 1:48:48 AM
Benzo(k)fluoranthene	ND	0.070		µg/L	1	4/17/2013 1:48:48 AM
Benzo(a)pyrene	ND	0.070		µg/L	1	4/17/2013 1:48:48 AM
Dibenz(a,h)anthracene	ND	0.12		µg/L	1	4/17/2013 1:48:48 AM
Benzo(g,h,i)perylene	ND	0.12		µg/L	1	4/17/2013 1:48:48 AM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	4/17/2013 1:48:48 AM
Surr: Benzo(e)pyrene	72.9	46.4-106		%REC	1	4/17/2013 1:48:48 AM
EPA METHOD 300.0: ANIONS						Analyst: **JRR**
Fluoride	0.39	0.10		mg/L	1	4/12/2013 10:53:57 AM
Chloride	350	10		mg/L	20	4/12/2013 11:31:11 AM
Nitrogen, Nitrate (As N)	2.5	0.10		mg/L	1	4/12/2013 10:53:57 AM
Sulfate	980	10		mg/L	20	4/12/2013 11:31:11 AM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **JLF**
Aluminum	ND	0.020		mg/L	1	4/16/2013 7:19:14 PM
Barium	0.0094	0.0020		mg/L	1	4/16/2013 7:19:14 PM
Boron	0.15	0.040		mg/L	1	4/16/2013 7:19:14 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HRL Compliance Solutions
Client Sample ID: Bill King Well
Project: Enterprise WEP III Water Sampling
Collection Date: 4/11/2013 2:30:00 PM
Lab ID: 1304515-001
Matrix: AQUEOUS
Received Date: 4/11/2013 4:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **JLF**
Cadmium	ND	0.0020		mg/L	1	4/16/2013 7:19:14 PM
Chromium	ND	0.0060		mg/L	1	4/17/2013 1:27:22 PM
Cobalt	ND	0.0060		mg/L	1	4/16/2013 7:19:14 PM
Copper	ND	0.0060		mg/L	1	4/16/2013 7:19:14 PM
Iron	0.022	0.020		mg/L	1	4/16/2013 7:19:14 PM
Lead	ND	0.0050		mg/L	1	4/17/2013 1:27:22 PM
Manganese	0.0026	0.0020		mg/L	1	4/17/2013 1:27:22 PM
Molybdenum	ND	0.0080		mg/L	1	4/16/2013 7:19:14 PM
Nickel	ND	0.010		mg/L	1	4/16/2013 7:19:14 PM
Silver	ND	0.0050		mg/L	1	4/16/2013 7:19:14 PM
Zinc	0.012	0.010		mg/L	1	4/16/2013 7:19:14 PM
EPA 200.8: DISSOLVED METALS						Analyst: **DBD**
Arsenic	0.0011	0.0010		mg/L	1	4/29/2013 3:24:35 PM
Selenium	0.0049	0.0010		mg/L	1	4/29/2013 3:24:35 PM
Uranium	0.0061	0.0010		mg/L	1	4/29/2013 3:24:35 PM
EPA METHOD 245.1: MERCURY						Analyst: **TES**
Mercury	ND	0.00020		mg/L	1	4/15/2013 5:39:42 PM
EPA METHOD 8260B: VOLATILES						Analyst: **CWS**
Benzene	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM
Toluene	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM
Ethylbenzene	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM
Naphthalene	ND	2.0		µg/L	1	4/17/2013 3:02:36 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	4/17/2013 3:02:36 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	4/17/2013 3:02:36 AM
Acetone	ND	10		µg/L	1	4/17/2013 3:02:36 AM
Bromobenzene	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM
Bromodichloromethane	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM
Bromoform	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM
Bromomethane	ND	3.0		µg/L	1	4/17/2013 3:02:36 AM
2-Butanone	ND	10		µg/L	1	4/17/2013 3:02:36 AM
Carbon disulfide	ND	10		µg/L	1	4/17/2013 3:02:36 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM
Chlorobenzene	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM
Chloroethane	ND	2.0		µg/L	1	4/17/2013 3:02:36 AM
Chloroform	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HRL Compliance Solutions
Client Sample ID: Bill King Well
Project: Enterprise WEP III Water Sampling
Collection Date: 4/11/2013 2:30:00 PM
Lab ID: 1304515-001
Matrix: AQUEOUS
Received Date: 4/11/2013 4:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **CWS**
Chloromethane	ND	3.0		µg/L	1	4/17/2013 3:02:36 AM
2-Chlorotoluene	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM
4-Chlorotoluene	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM
cis-1,2-DCE	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	4/17/2013 3:02:36 AM
Dibromochloromethane	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM
Dibromomethane	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	4/17/2013 3:02:36 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM
2-Hexanone	ND	10		µg/L	1	4/17/2013 3:02:36 AM
Isopropylbenzene	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	4/17/2013 3:02:36 AM
Methylene Chloride	ND	3.0		µg/L	1	4/17/2013 3:02:36 AM
n-Butylbenzene	ND	3.0		µg/L	1	4/17/2013 3:02:36 AM
n-Propylbenzene	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM
sec-Butylbenzene	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM
Styrene	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM
tert-Butylbenzene	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/17/2013 3:02:36 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM
trans-1,2-DCE	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	4/17/2013 3:02:36 AM
Vinyl chloride	ND	1.0		µg/L	1	4/17/2013 3:02:36 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HRL Compliance Solutions
Client Sample ID: Bill King Well
Project: Enterprise WEP III Water Sampling
Collection Date: 4/11/2013 2:30:00 PM
Lab ID: 1304515-001 **Matrix:** AQUEOUS **Received Date:** 4/11/2013 4:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **CWS**
Xylenes, Total	ND	1.5		µg/L	1	4/17/2013 3:02:36 AM
Surr: 1,2-Dichloroethane-d4	95.1	70-130		%REC	1	4/17/2013 3:02:36 AM
Surr: 4-Bromofluorobenzene	97.7	69.5-130		%REC	1	4/17/2013 3:02:36 AM
Surr: Dibromofluoromethane	103	70-130		%REC	1	4/17/2013 3:02:36 AM
Surr: Toluene-d8	97.3	70-130		%REC	1	4/17/2013 3:02:36 AM
TOTAL PHENOLICS BY SW-846 9067						Analyst: **SCC**
Phenolics, Total Recoverable	ND	2.5		µg/L	1	4/15/2013
SM4500-H+B: PH						Analyst: **JML**
pH	7.61	1.68	H	pH units	1	4/12/2013 4:36:38 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	2070	20.0	*	mg/L	1	4/16/2013 4:33:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

LAB FEDERAL ID#:	LAB SAMPLE NUMBER:
ID00013	130416028-001
DATE RECEIVED:	DATE REPORTED BY LAB:
4/16/2013	4/29/2013
COMPLIANCE SAMPLE: YES	REPLACEMENT SAMPLE: NO
COLLECTION DATE:	COLLECTION TIME:
4/11/2013	2:30 PM
SAMPLE TYPE:	
PWS #:	PWS NAME: HALL ENVIRONMENTAL ANALYSIS LAB
SAMPLING POINT/LOCATION: 1304515-001I / BILL KING WELL	TAG #/FACILITY ID:
CONTACT NAME: ANDY FREEMAN	CONTACT PHONE: 505-345-3975

Anatek Labs, Inc.

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Public Drinking Water System Inorganic Chemical (IOC) Analysis Report

FRDS	Contaminant	Result	Units	MCL	MDL	Method	Analysis Date	Analyst	Qualifier
Primary IOCs									
			Phase II						
1024	Cyanide	ND	mg/L	0.2	0.01	EPA 335.4	4/25/2013	CRW	

ND = Analyte Not Detected
----- = No Analysis Performed
MCL = Maximum Contaminant Level
MDL = Method Detection Limit

This report shall not be reproduced except in full, without the written approval of the laboratory.
The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

Lab Supervisor

ANDY FREEMAN
HALL ENVIRONMENTAL ANALYSIS LAB
4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0026; NM: ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095

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Greensburg, PA 15601
(724)850-5600

May 08, 2013

Ms. Anne Thorne
Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109

RE: Project: 1304515
Pace Project No.: 3092037

Dear Ms. Thorne:
Enclosed are the analytical results for sample(s) received by the laboratory on April 17, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carin A. Ferris

Carin Ferris

carin.ferris@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 1304515
Pace Project No.: 3092037

Pennsylvania Certification IDs
1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601
ACLASS DOD-ELAP Accreditation #: ADE-1544
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/TNI Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/TNI Certification #: LA080002
Louisiana/TNI Certification #: 4086
Maine Certification #: PA0091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nevada Certification
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188
Utah/TNI Certification #: ANTE
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

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SAMPLE SUMMARY

Project: 1304515
Pace Project No.: 3092037

Lab ID	Sample ID	Matrix	Date Collected	Date Received
3092037001	**1304515-001 Bill King Well**	Water	04/11/13 14:30	04/17/13 09:30

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SAMPLE ANALYTE COUNT

Project: 1304515
Pace Project No.: 3092037

Lab ID	Sample ID	Method	Analysts	Analytes Reported
3092037001	**1304515-001 Bill King Well**	EPA 903.1	SLA	1
		EPA 904.0	MAW	1

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PROJECT NARRATIVE

Project: 1304515
Pace Project No.: 3092037

Method: **EPA 903.1**
Description: 903.1 Radium 226
Client: Hall Environmental Analysis Laboratory
Date: May 08, 2013

General Information:
1 sample was analyzed for EPA 903.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 1304515
Pace Project No.: 3092037

Method: EPA 904.0
Description: 904.0 Radium 228
Client: Hall Environmental Analysis Laboratory
Date: May 08, 2013

General Information:
1 sample was analyzed for EPA 904.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 1304515
Pace Project No.: 3092037

Sample: 1304515-001 Bill King Well **Lab ID: 3092037001** Collected: 04/11/13 14:30 Received: 04/17/13 09:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 903.1	**0.0647 ± 0.380 (0.777)**	pCi/L	05/07/13 13:20	13982-63-3	
Radium-228	EPA 904.0	**0.463 ± 0.432 (0.855)**	pCi/L	05/03/13 15:10	15262-20-1	

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QUALITY CONTROL DATA

Project: 1304515
Pace Project No.: 3092037

QC Batch: RADC/15513 Analysis Method: EPA 904.0
QC Batch Method: EPA 904.0 Analysis Description: 904.0 Radium 228
Associated Lab Samples: 3092037001

METHOD BLANK: 570877 Matrix: Water
Associated Lab Samples: 3092037001

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Radium-228	0.111 ± 0.365 (0.833)	pCi/L	05/03/13 11:34	

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QUALITY CONTROL DATA

Project: 1304515
Pace Project No.: 3092037

QC Batch: RADC/15505
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Associated Lab Samples: 3092037001

METHOD BLANK: 570817
Matrix: Water
Associated Lab Samples: 3092037001

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Radium-226	0.000 ± 0.300 (0.650)	pCi/L	05/07/13 13:00	

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QUALIFIERS

Project: 1304515
Pace Project No.: 3092037

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty

(MDC) - Minimum Detectable Concentration

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304515**

08-May-13

Client: HRL Compliance Solutions

Project: Enterprise WEP III Water Sampling

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW**	Batch ID: **R9910**	RunNo: **9910**
Prep Date: **2/22/2013**	Analysis Date: **4/16/2013**	SeqNo: **281828** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	ND	0.020								
Barium	ND	0.0020								
Boron	ND	0.040								
Cadmium	ND	0.0020								
Cobalt	ND	0.0060								
Copper	ND	0.0060								
Iron	ND	0.020								
Molybdenum	ND	0.0080								
Nickel	ND	0.010								
Silver	ND	0.0050								
Zinc	ND	0.010								

Sample ID: **LCS**	SampType: **LCS**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **R9910**	RunNo: **9910**
Prep Date:	Analysis Date: **4/16/2013**	SeqNo: **281829** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	0.56	0.020	0.5000	0	113	85	115			
Barium	0.49	0.0020	0.5000	0	98.7	85	115			
Boron	0.51	0.040	0.5000	0	102	85	115			
Cadmium	0.51	0.0020	0.5000	0	102	85	115			
Cobalt	0.49	0.0060	0.5000	0	98.8	85	115			
Copper	0.51	0.0060	0.5000	0	102	85	115			
Iron	0.49	0.020	0.5000	0	98.5	85	115			
Molybdenum	0.50	0.0080	0.5000	0	100	85	115			
Nickel	0.49	0.010	0.5000	0	98.8	85	115			
Silver	0.10	0.0050	0.1000	0	104	85	115			
Zinc	0.50	0.010	0.5000	0	99.0	85	115			

Sample ID: **1304525-002AMS**	SampType: **MS**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **BatchQC**	Batch ID: **R9910**	RunNo: **9910**
Prep Date:	Analysis Date: **4/16/2013**	SeqNo: **281855** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	0.57	0.020	0.5000	0.01052	111	70	130			
Barium	0.49	0.0020	0.5000	0.01049	96.6	70	130			
Cadmium	0.51	0.0020	0.5000	0	102	70	130			
Cobalt	0.49	0.0060	0.5000	0.005440	96.5	70	130			
Copper	0.51	0.0060	0.5000	0	102	70	130			
Iron	0.48	0.020	0.5000	0	96.3	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304515**

08-May-13

Client: HRL Compliance Solutions

Project: Enterprise WEP III Water Sampling

Sample ID: **1304525-002AMS** SampType: **MS** TestCode: **EPA Method 200.7: Dissolved Metals**

Client ID: **BatchQC** Batch ID: **R9910** RunNo: **9910**

Prep Date: Analysis Date: **4/16/2013** SeqNo: **281855** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Molybdenum	0.49	0.0080	0.5000	0.003890	98.1	70	130			
Nickel	0.49	0.010	0.5000	0	97.7	70	130			
Silver	0.10	0.0050	0.1000	0	103	70	130			
Zinc	0.49	0.010	0.5000	0	98.5	70	130			

Sample ID: **1304525-002AMSD** SampType: **MSD** TestCode: **EPA Method 200.7: Dissolved Metals**

Client ID: **BatchQC** Batch ID: **R9910** RunNo: **9910**

Prep Date: Analysis Date: **4/16/2013** SeqNo: **281856** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	0.55	0.020	0.5000	0.01052	108	70	130	2.37	20	
Barium	0.48	0.0020	0.5000	0.01049	94.3	70	130	2.32	20	
Cadmium	0.49	0.0020	0.5000	0	98.6	70	130	3.50	20	
Cobalt	0.48	0.0060	0.5000	0.005440	94.1	70	130	2.41	20	
Copper	0.49	0.0060	0.5000	0	98.9	70	130	3.00	20	
Iron	0.47	0.020	0.5000	0	94.6	70	130	1.81	20	
Molybdenum	0.48	0.0080	0.5000	0.003890	96.1	70	130	2.03	20	
Nickel	0.48	0.010	0.5000	0	95.4	70	130	2.35	20	
Silver	0.10	0.0050	0.1000	0	100	70	130	3.33	20	
Zinc	0.48	0.010	0.5000	0	96.1	70	130	2.43	20	

Sample ID: **LCS** SampType: **LCS** TestCode: **EPA Method 200.7: Dissolved Metals**

Client ID: **LCSW** Batch ID: **R9937** RunNo: **9937**

Prep Date: Analysis Date: **4/17/2013** SeqNo: **283074** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.51	0.0060	0.5000	0	102	85	115			
Manganese	0.51	0.0020	0.5000	0	101	85	115			

Sample ID: **1304525-002AMS** SampType: **MS** TestCode: **EPA Method 200.7: Dissolved Metals**

Client ID: **BatchQC** Batch ID: **R9937** RunNo: **9937**

Prep Date: Analysis Date: **4/17/2013** SeqNo: **283086** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.52	0.0060	0.5000	0.002500	103	70	130			
Manganese	0.52	0.0020	0.5000	0.009480	101	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304515**

08-May-13

Client: HRL Compliance Solutions

Project: Enterprise WEP III Water Sampling

Sample ID: **1304525-002AMSD**	SampType: **MSD**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **BatchQC**	Batch ID: **R9937**	RunNo: **9937**
Prep Date:	Analysis Date: **4/17/2013**	SeqNo: **283087** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.51	0.0060	0.5000	0.002500	101	70	130	1.36	20	
Manganese	0.51	0.0020	0.5000	0.009480	100	70	130	1.05	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304515**

08-May-13

Client: HRL Compliance Solutions

Project: Enterprise WEP III Water Sampling

Sample ID: **1304666-001DMS** SampType: **MS** TestCode: **EPA 200.8: Dissolved Metals**

Client ID: **BatchQC** Batch ID: **R10184** RunNo: **10184**

Prep Date: Analysis Date: **4/29/2013** SeqNo: **290129** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
rsenic	0.028	0.0010	0.02500	0.001818	104	70	130			
elenium	0.026	0.0010	0.02500	0	105	70	130			

Sample ID: **1304899-001BMS** SampType: **MS** TestCode: **EPA 200.8: Dissolved Metals**

Client ID: **BatchQC** Batch ID: **R10184** RunNo: **10184**

Prep Date: Analysis Date: **4/29/2013** SeqNo: **290133** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
rsenic	0.040	0.0010	0.02500	0.01406	103	70	130			

Sample ID: **LCS** SampType: **LCS** TestCode: **EPA 200.8: Dissolved Metals**

Client ID: **LCSW** Batch ID: **R10184** RunNo: **10184**

Prep Date: Analysis Date: **4/29/2013** SeqNo: **290150** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
rsenic	0.023	0.0010	0.02500	0	92.3	85	115			
Selenium	0.023	0.0010	0.02500	0	90.8	85	115			

Sample ID: **LCS** SampType: **LCS** TestCode: **EPA 200.8: Dissolved Metals**

Client ID: **LCSW** Batch ID: **R10184** RunNo: **10184**

Prep Date: Analysis Date: **4/29/2013** SeqNo: **290151** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.025	0.0010	0.02500	0	98.3	85	115			
elenium	0.025	0.0010	0.02500	0	98.3	85	115			

Sample ID: **LCS** SampType: **LCS** TestCode: **EPA 200.8: Dissolved Metals**

Client ID: **LCSW** Batch ID: **R10184** RunNo: **10184**

Prep Date: Analysis Date: **4/29/2013** SeqNo: **290152** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
rsenic	0.024	0.0010	0.02500	0	97.4	85	115			
elenium	0.024	0.0010	0.02500	0	96.8	85	115			
Uranium	0.024	0.0010	0.02500	0	94.8	85	115			

Sample ID: **MB** SampType: **MBLK** TestCode: **EPA 200.8: Dissolved Metals**

Client ID: **PBW** Batch ID: **R10184** RunNo: **10184**

Prep Date: Analysis Date: **4/29/2013** SeqNo: **290153** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304515**

08-May-13

Client: HRL Compliance Solutions

Project: Enterprise WEP III Water Sampling

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **PBW**	Batch ID: **R10184**	RunNo: **10184**
Prep Date:	Analysis Date: **4/29/2013**	SeqNo: **290153** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	ND	0.0010								

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **PBW**	Batch ID: **R10184**	RunNo: **10184**
Prep Date:	Analysis Date: **4/29/2013**	SeqNo: **290154** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Selenium	ND	0.0010								

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **PBW**	Batch ID: **R10184**	RunNo: **10184**
Prep Date:	Analysis Date: **4/29/2013**	SeqNo: **290155** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Selenium	ND	0.0010								
Uranium	ND	0.0010								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304515**

08-May-13

Client: HRL Compliance Solutions

Project: Enterprise WEP III Water Sampling

Sample ID: **MB-6976** SampType: **MBLK** TestCode: **EPA Method 245.1: Mercury**

Client ID: **PBW** Batch ID: **6976** RunNo: **9872**

Prep Date: **4/15/2013** Analysis Date: **4/15/2013** SeqNo: **281281** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID: **LCS-6976** SampType: **LCS** TestCode: **EPA Method 245.1: Mercury**

Client ID: **LCSW** Batch ID: **6976** RunNo: **9872**

Prep Date: **4/15/2013** Analysis Date: **4/15/2013** SeqNo: **281282** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0049	0.00020	0.005000	0	97.6	80	120			

Sample ID: **1304525-001BMS** SampType: **MS** TestCode: **EPA Method 245.1: Mercury**

Client ID: **BatchQC** Batch ID: **6976** RunNo: **9872**

Prep Date: **4/15/2013** Analysis Date: **4/15/2013** SeqNo: **281290** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0048	0.00020	0.005000	0	96.3	75	125			

Sample ID: **1304525-001BMSD** SampType: **MSD** TestCode: **EPA Method 245.1: Mercury**

Client ID: **BatchQC** Batch ID: **6976** RunNo: **9872**

Prep Date: **4/15/2013** Analysis Date: **4/15/2013** SeqNo: **281291** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0048	0.00020	0.005000	0	95.3	75	125	1.07	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304515**

08-May-13

Client: HRL Compliance Solutions

Project: Enterprise WEP III Water Sampling

Sample ID: **MB** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**

Client ID: **PBW** Batch ID: **R9856** RunNo: **9856**

Prep Date: Analysis Date: **4/12/2013** SeqNo: **280578** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
luoride	ND	0.10								
hloride	ND	0.50								
Nitrogen, Nitrate (As N)	ND	0.10								
ulfate	ND	0.50								

Sample ID: **LCS** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**

Client ID: **LCSW** Batch ID: **R9856** RunNo: **9856**

Prep Date: Analysis Date: **4/12/2013** SeqNo: **280579** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
luoride	0.49	0.10	0.5000	0	97.2	90	110			
hloride	4.7	0.50	5.000	0	94.5	90	110			
Nitrogen, Nitrate (As N)	2.4	0.10	2.500	0	97.5	90	110			
Sulfate	9.5	0.50	10.00	0	94.9	90	110			

Sample ID: **1304515-001EMS** SampType: **MS** TestCode: **EPA Method 300.0: Anions**

Client ID: **Bill King Well** Batch ID: **R9856** RunNo: **9856**

Prep Date: Analysis Date: **4/12/2013** SeqNo: **280581** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.85	0.10	0.5000	0.3907	91.7	76.6	110			
itrogen, Nitrate (As N)	5.2	0.10	2.500	2.505	106	90.4	113			

Sample ID: **1304515-001EMSD** SampType: **MSD** TestCode: **EPA Method 300.0: Anions**

Client ID: **Bill King Well** Batch ID: **R9856** RunNo: **9856**

Prep Date: Analysis Date: **4/12/2013** SeqNo: **280582** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
luoride	0.86	0.10	0.5000	0.3907	94.2	76.6	110	1.46	20	
itrogen, Nitrate (As N)	5.1	0.10	2.500	2.505	105	90.4	113	0.359	20	

Sample ID: **1304505-001CMS** SampType: **MS** TestCode: **EPA Method 300.0: Anions**

Client ID: **BatchQC** Batch ID: **R9856** RunNo: **9856**

Prep Date: Analysis Date: **4/12/2013** SeqNo: **280585** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
luoride	0.51	0.10	0.5000	0.04010	94.5	76.6	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304515**

08-May-13

Client: HRL Compliance Solutions

Project: Enterprise WEP III Water Sampling

Sample ID: **1304505-001CMSD** SampType: **MSD** TestCode: **EPA Method 300.0: Anions**

Client ID: **BatchQC** Batch ID: **R9856** RunNo: **9856**

Prep Date: Analysis Date: **4/12/2013** SeqNo: **280586** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
luoride	0.51	0.10	0.5000	0.04010	94.4	76.6	110	0.137	20	

Sample ID: **1304525-001AMS** SampType: **MS** TestCode: **EPA Method 300.0: Anions**

Client ID: **BatchQC** Batch ID: **R9856** RunNo: **9856**

Prep Date: Analysis Date: **4/12/2013** SeqNo: **280593** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
luoride	1.4	0.10	0.5000	0.9636	90.1	76.6	110			
hloride	16	0.50	5.000	10.22	107	87.8	111			
Sulfate	32	0.50	10.00	21.01	107	84.6	122			

Sample ID: **1304525-001AMSD** SampType: **MSD** TestCode: **EPA Method 300.0: Anions**

Client ID: **BatchQC** Batch ID: **R9856** RunNo: **9856**

Prep Date: Analysis Date: **4/12/2013** SeqNo: **280594** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.4	0.10	0.5000	0.9636	90.8	76.6	110	0.254	20	
hloride	16	0.50	5.000	10.22	107	87.8	111	0.0346	20	
ulfate	32	0.50	10.00	21.01	108	84.6	122	0.180	20	

Sample ID: **MB** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**

Client ID: **PBW** Batch ID: **R9856** RunNo: **9856**

Prep Date: Analysis Date: **4/12/2013** SeqNo: **280632** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
uoride	ND	0.10								
Chloride	ND	0.50								
Nitrogen, Nitrate (As N)	ND	0.10								
ulfate	ND	0.50								

Sample ID: **LCS** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**

Client ID: **LCSW** Batch ID: **R9856** RunNo: **9856**

Prep Date: Analysis Date: **4/12/2013** SeqNo: **280633** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
uoride	0.48	0.10	0.5000	0	96.1	90	110			
hloride	4.6	0.50	5.000	0	92.3	90	110			
Nitrogen, Nitrate (As N)	2.4	0.10	2.500	0	96.2	90	110			
lfate	9.3	0.50	10.00	0	93.2	90	110			

ualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304515**

08-May-13

Client: HRL Compliance Solutions

Project: Enterprise WEP III Water Sampling

Sample ID: **1304546-010EMS** SampType: **MS** TestCode: **EPA Method 300.0: Anions**

Client ID: **BatchQC** Batch ID: **R9856** RunNo: **9856**

Prep Date: Analysis Date: **4/12/2013** SeqNo: **280643** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
luoride	1.6	0.10	0.5000	1.125	91.8	76.6	110			
itrogen, Nitrate (As N)	3.0	0.10	2.500	0.4275	101	90.4	113			

Sample ID: **1304546-010EMSD** SampType: **MSD** TestCode: **EPA Method 300.0: Anions**

Client ID: **BatchQC** Batch ID: **R9856** RunNo: **9856**

Prep Date: Analysis Date: **4/13/2013** SeqNo: **280644** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
luoride	1.6	0.10	0.5000	1.125	92.6	76.6	110	0.252	20	
Nitrogen, Nitrate (As N)	3.0	0.10	2.500	0.4275	102	90.4	113	0.569	20	

Sample ID: **1304558-002BMS** SampType: **MS** TestCode: **EPA Method 300.0: Anions**

Client ID: **BatchQC** Batch ID: **R9856** RunNo: **9856**

Prep Date: Analysis Date: **4/13/2013** SeqNo: **280651** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.3	0.10	0.5000	0.8156	93.2	76.6	110			
itrogen, Nitrate (As N)	3.0	0.10	2.500	0.4990	102	90.4	113			

Sample ID: **1304558-002BMSD** SampType: **MSD** TestCode: **EPA Method 300.0: Anions**

Client ID: **BatchQC** Batch ID: **R9856** RunNo: **9856**

Prep Date: Analysis Date: **4/13/2013** SeqNo: **280652** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
luoride	1.3	0.10	0.5000	0.8156	93.8	76.6	110	0.242	20	
itrogen, Nitrate (As N)	3.1	0.10	2.500	0.4990	103	90.4	113	1.05	20	

ualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304515**

08-May-13

Client: HRL Compliance Solutions

Project: Enterprise WEP III Water Sampling

Sample ID: **MB-6982**	SampType: **MBLK**	TestCode: **EPA Method 8011/504.1: EDB**
Client ID: **PBW**	Batch ID: **6982**	RunNo: **9883**
Prep Date: **4/15/2013**	Analysis Date: **4/15/2013**	SeqNo: **281226** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Dibromoethane	ND	0.010								

Sample ID: **LCS-6982**	SampType: **LCS**	TestCode: **EPA Method 8011/504.1: EDB**
Client ID: **LCSW**	Batch ID: **6982**	RunNo: **9883**
Prep Date: **4/15/2013**	Analysis Date: **4/15/2013**	SeqNo: **281227** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Dibromoethane	0.11	0.010	0.1000	0	111	70	130			

Sample ID: **LCSD-6982**	SampType: **LCS**	TestCode: **EPA Method 8011/504.1: EDB**
Client ID: **LCSW**	Batch ID: **6982**	RunNo: **9883**
Prep Date: **4/15/2013**	Analysis Date: **4/15/2013**	SeqNo: **281228** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Dibromoethane	0.11	0.010	0.1000	0	106	70	130	4.61	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit
- S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304515**

08-May-13

Client: HRL Compliance Solutions

Project: Enterprise WEP III Water Sampling

Sample ID: **MB-6964**	SampType: **MBLK**	TestCode: **EPA Method 8082: PCB's**
Client ID: **PBW**	Batch ID: **6964**	RunNo: **9907**
Prep Date: **4/14/2013**	Analysis Date: **4/16/2013**	SeqNo: **281780** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
roclor 1016	ND	1.0								
roclor 1221	ND	1.0								
Aroclor 1232	ND	1.0								
roclor 1242	ND	1.0								
roclor 1248	ND	1.0								
Aroclor 1254	ND	1.0								
Aroclor 1260	ND	1.0								
Surr: Decachlorobiphenyl	3.2		2.500		128	23.9	124			S
Surr: Tetrachloro-m-xylene	2.6		2.500		102	28.1	139			

Sample ID: **LCS-6964**	SampType: **LCS**	TestCode: **EPA Method 8082: PCB's**
Client ID: **LCSW**	Batch ID: **6964**	RunNo: **9907**
Prep Date: **4/14/2013**	Analysis Date: **4/16/2013**	SeqNo: **281781** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	3.9	1.0	5.000	0	78.2	32.3	121			
Aroclor 1260	5.8	1.0	5.000	0	115	34	128			
Surr: Decachlorobiphenyl	3.2		2.500		127	23.9	124			S
Surr: Tetrachloro-m-xylene	2.3		2.500		93.2	28.1	139			

Sample ID: **1304515-001DMS**	SampType: **MS**	TestCode: **EPA Method 8082: PCB's**
Client ID: **Bill King Well**	Batch ID: **6964**	RunNo: **9907**
Prep Date: **4/14/2013**	Analysis Date: **4/16/2013**	SeqNo: **281793** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
roclor 1016	2.0	1.0	5.000	0	40.1	70	130			S
Aroclor 1260	3.5	1.0	5.000	0	69.7	61.1	129			
Surr: Decachlorobiphenyl	2.7		2.500		109	23.9	124			
Surr: Tetrachloro-m-xylene	2.0		2.500		79.6	28.1	139			

Sample ID: **1304515-001DMSD**	SampType: **MSD**	TestCode: **EPA Method 8082: PCB's**
Client ID: **Bill King Well**	Batch ID: **6964**	RunNo: **9907**
Prep Date: **4/14/2013**	Analysis Date: **4/16/2013**	SeqNo: **281794** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
roclor 1016	1.9	1.0	5.000	0	37.0	70	130	7.98	20	S
Aroclor 1260	3.2	1.0	5.000	0	64.4	61.1	129	8.00	12.9	
Surr: Decachlorobiphenyl	2.6		2.500		102	23.9	124	0	0	
Surr: Tetrachloro-m-xylene	1.8		2.500		72.8	28.1	139	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304515**

08-May-13

Client: HRL Compliance Solutions

Project: Enterprise WEP III Water Sampling

Sample ID: **5mL rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**	
Client ID: **PBW**	Batch ID: **R9909**	RunNo: **9909**	
Prep Date:	Analysis Date: **4/16/2013**	SeqNo: **281812**	Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
enzene	ND	1.0								
oluene	ND	1.0								
Ethylbenzene	ND	1.0								
lethyl tert-butyl ether (MTBE)	ND	1.0								
,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
,2-Dichloroethane (EDC)	ND	1.0								
,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
-Methylnaphthalene	ND	4.0								
cetone	ND	10								
Bromobenzene	ND	1.0								
romodichloromethane	ND	1.0								
romoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
arbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
hloroethane	ND	2.0								
hloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
,2-Dibromo-3-chloropropane	ND	2.0								
ibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
,2-Dichlorobenzene	ND	1.0								
,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
ichlorodifluoromethane	ND	1.0								
,1-Dichloroethane	ND	1.0								
,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
,3-Dichloropropane	ND	1.0								
,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

WO#: **1304515**

Hall Environmental Analysis Laboratory, Inc.

08-May-13

Client: HRL Compliance Solutions

Project: Enterprise WEP III Water Sampling

Sample ID: **5mL rb** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**

Client ID: **PBW** Batch ID: **R9909** RunNo: **9909**

Prep Date: Analysis Date: **4/16/2013** SeqNo: **281812** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
exachlorobutadiene	ND	1.0								
-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
-Isopropyltoluene	ND	1.0								
-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
-Butylbenzene	ND	3.0								
-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
rt-Butylbenzene	ND	1.0								
1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
etrachloroethene (PCE)	ND	1.0								
ans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
richloroethene (TCE)	ND	1.0								
richlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
inyl chloride	ND	1.0								
ylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.5		10.00		94.8	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	69.5	130			
Surr: Dibromofluoromethane	11		10.00		108	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**

Client ID: **LCSW** Batch ID: **R9909** RunNo: **9909**

Prep Date: Analysis Date: **4/16/2013** SeqNo: **281814** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
enzene	19	1.0	20.00	0	96.4	70	130			
Toluene	19	1.0	20.00	0	96.2	80	120			
hlorobenzene	18	1.0	20.00	0	89.6	70	130			
,1-Dichloroethene	18	1.0	20.00	0	89.4	85.8	133			
Trichloroethene (TCE)	18	1.0	20.00	0	90.7	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

WO#: **1304515**

Hall Environmental Analysis Laboratory, Inc.

08-May-13

Client: HRL Compliance Solutions

Project: Enterprise WEP III Water Sampling

Sample ID: **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R9909**	RunNo: **9909**
Prep Date:	Analysis Date: **4/16/2013**	SeqNo: **281814** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	9.9		10.00		99.1	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		96.7	69.5	130			
Surr: Dibromofluoromethane	10		10.00		100	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Sample ID: **1304484-001a ms**	SampType: **MS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **BatchQC**	Batch ID: **R9909**	RunNo: **9909**
Prep Date:	Analysis Date: **4/16/2013**	SeqNo: **281886** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	26	1.0	20.00	10.24	78.7	70	130			
Toluene	26	1.0	20.00	8.257	89.4	68.5	128			
Chlorobenzene	18	1.0	20.00	0	88.5	70	130			
1,1-Dichloroethene	14	1.0	20.00	0	70.5	70	130			
Trichloroethene (TCE)	15	1.0	20.00	0	74.8	61.3	102			
Surr: 1,2-Dichloroethane-d4	8.1		10.00		81.4	70	130			
Surr: 4-Bromofluorobenzene	8.7		10.00		87.5	69.5	130			
Surr: Dibromofluoromethane	8.0		10.00		79.6	70	130			
Surr: Toluene-d8	9.8		10.00		98.5	70	130			

Sample ID: **1304484-001a msd**	SampType: **MSD**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **BatchQC**	Batch ID: **R9909**	RunNo: **9909**
Prep Date:	Analysis Date: **4/16/2013**	SeqNo: **281887** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	27	1.0	20.00	10.24	83.9	70	130	3.96	20	
Toluene	27	1.0	20.00	8.257	91.3	68.5	128	1.41	20	
Chlorobenzene	18	1.0	20.00	0	90.6	70	130	2.37	20	
1,1-Dichloroethene	14	1.0	20.00	0	69.4	70	130	1.55	20	S
Trichloroethene (TCE)	15	1.0	20.00	0	72.8	61.3	102	2.65	20	
Surr: 1,2-Dichloroethane-d4	8.1		10.00		80.8	70	130	0	0	
Surr: 4-Bromofluorobenzene	8.7		10.00		86.8	69.5	130	0	0	
Surr: Dibromofluoromethane	8.4		10.00		84.2	70	130	0	0	
Surr: Toluene-d8	10		10.00		102	70	130	0	0	

Sample ID: **b4**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R9909**	RunNo: **9909**
Prep Date:	Analysis Date: **4/16/2013**	SeqNo: **281922** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit
- S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304515**

08-May-13

Client: HRL Compliance Solutions

Project: Enterprise WEP III Water Sampling

Sample ID: **b4**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R9909**	RunNo: **9909**
Prep Date:	Analysis Date: **4/16/2013**	SeqNo: **281922** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304515**

08-May-13

Client: HRL Compliance Solutions

Project: Enterprise WEP III Water Sampling

Sample ID: **b4**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R9909**	RunNo: **9909**
Prep Date:	Analysis Date: **4/16/2013**	SeqNo: **281922** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-Hexanone	ND	10								
sopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
ec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
,1,1,2-Tetrachloroethane	ND	1.0								
,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
rans-1,2-DCE	ND	1.0								
ans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
,1,1-Trichloroethane	ND	1.0								
,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
richlorofluoromethane	ND	1.0								
2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		105	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		97.0	69.5	130			
Surr: Dibromofluoromethane	11		10.00		108	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Sample ID: **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R9909**	RunNo: **9909**
Prep Date:	Analysis Date: **4/16/2013**	SeqNo: **281925** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
enzene	19	1.0	20.00	0	96.0	70	130			
oluene	18	1.0	20.00	0	88.5	80	120			
Chlorobenzene	17	1.0	20.00	0	86.3	70	130			
1-Dichloroethene	15	1.0	20.00	0	77.5	85.8	133			S
richloroethene (TCE)	18	1.0	20.00	0	89.4	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		102	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304515**

08-May-13

Client: HRL Compliance Solutions

Project: Enterprise WEP III Water Sampling

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**

Client ID: **LCSW** Batch ID: **R9909** RunNo: **9909**

Prep Date: Analysis Date: **4/16/2013** SeqNo: **281925** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	10		10.00		101	69.5	130			
Surr: Dibromofluoromethane	10		10.00		104	70	130			
Surr: Toluene-d8	9.8		10.00		97.5	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304515**

08-May-13

Client: HRL Compliance Solutions

Project: Enterprise WEP III Water Sampling

Sample ID: **MB-6965**	SampType: **MBLK**	TestCode: **EPA Method 8310: PAHs**
Client ID: **PBW**	Batch ID: **6965**	RunNo: **9888**
Prep Date: **4/14/2013**	Analysis Date: **4/16/2013**	SeqNo: **281803** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	2.0								
2-Methylnaphthalene	ND	2.0								
Acenaphthylene	ND	2.5								
Acenaphthene	ND	5.0								
Fluorene	ND	0.80								
Phenanthrene	ND	0.60								
Anthracene	ND	0.60								
Fluoranthene	ND	0.30								
Pyrene	ND	0.30								
Benz(a)anthracene	ND	0.070								
Chrysene	ND	0.20								
Benzo(b)fluoranthene	ND	0.10								
Benzo(k)fluoranthene	ND	0.070								
Benzo(a)pyrene	ND	0.070								
Dibenz(a,h)anthracene	ND	0.12								
Benzo(g,h,i)perylene	ND	0.12								
Indeno(1,2,3-cd)pyrene	ND	0.080								
Surr: Benzo(e)pyrene	16		20.00		79.6	46.4	106			

Sample ID: **1304546-001DMS**	SampType: **MS**	TestCode: **EPA Method 8310: PAHs**
Client ID: **BatchQC**	Batch ID: **6965**	RunNo: **9888**
Prep Date: **4/14/2013**	Analysis Date: **4/17/2013**	SeqNo: **281950** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	22	2.0	80.00	1.780	25.7	70	130			S
1-Methylnaphthalene	34	2.0	80.20	1.740	39.7	70	130			S
2-Methylnaphthalene	34	2.0	80.00	1.560	40.4	70	130			S
Acenaphthylene	37	2.5	80.20	0	46.1	70	130			S
Acenaphthene	42	5.0	80.00	0	51.9	70	130			S
Fluorene	4.4	0.80	8.020	0	54.9	70	130			S
Phenanthrene	2.2	0.60	4.020	0	55.7	70	130			S
Anthracene	2.2	0.60	4.020	0	54.5	70	130			S
Fluoranthene	5.3	0.30	8.020	0	65.5	70	130			S
Pyrene	4.3	0.30	8.020	0	54.1	70	130			S
Benz(a)anthracene	0.53	0.070	0.8020	0	66.1	70	130			S
Chrysene	2.5	0.20	4.020	0	60.9	70	130			S
Benzo(b)fluoranthene	0.67	0.10	1.002	0	66.9	70	130			S
Benzo(k)fluoranthene	0.32	0.070	0.5000	0	64.0	70	130			S
Benzo(a)pyrene	0.31	0.070	0.5020	0	61.8	70	130			S

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304515**

08-May-13

Client: HRL Compliance Solutions

Project: Enterprise WEP III Water Sampling

Sample ID: **1304546-001DMS**	SampType: **MS**	TestCode: **EPA Method 8310: PAHs**
Client ID: **BatchQC**	Batch ID: **6965**	RunNo: **9888**
Prep Date: **4/14/2013**	Analysis Date: **4/17/2013**	SeqNo: **281950** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Dibenz(a,h)anthracene	0.69	0.12	1.002	0	68.9	70	130			S
Benzo(g,h,i)perylene	0.63	0.12	1.000	0	63.0	70	130			S
Indeno(1,2,3-cd)pyrene	1.2	0.080	2.004	0	60.9	70	130			S
Surr: Benzo(e)pyrene	13		20.00		64.7	46.4	106			

Sample ID: **1304546-001DMSD**	SampType: **MSD**	TestCode: **EPA Method 8310: PAHs**
Client ID: **BatchQC**	Batch ID: **6965**	RunNo: **9888**
Prep Date: **4/14/2013**	Analysis Date: **4/17/2013**	SeqNo: **281951** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	24	2.0	80.00	1.780	27.6	70	130	6.79	20	S
1-Methylnaphthalene	34	2.0	80.20	1.740	40.5	70	130	1.98	20	S
2-Methylnaphthalene	35	2.0	80.00	1.560	41.9	70	130	3.39	20	S
Acenaphthylene	38	2.5	80.20	0	48.0	70	130	3.84	20	S
Acenaphthene	42	5.0	80.00	0	52.6	70	130	1.22	20	S
Fluorene	4.4	0.80	8.020	0	55.2	70	130	0.680	20	S
Phenanthrene	2.3	0.60	4.020	0	58.2	70	130	4.37	20	S
Anthracene	2.3	0.60	4.020	0	56.5	70	130	3.59	20	S
Fluoranthene	4.9	0.30	8.020	0	61.2	70	130	6.69	20	S
Pyrene	4.4	0.30	8.020	0	54.2	70	130	0.230	20	S
Benz(a)anthracene	0.54	0.070	0.8020	0	67.3	70	130	1.87	20	S
Chrysene	2.4	0.20	4.020	0	60.7	70	130	0.409	20	S
Benzo(b)fluoranthene	0.66	0.10	1.002	0	65.9	70	130	1.50	20	S
Benzo(k)fluoranthene	0.33	0.070	0.5000	0	66.0	70	130	3.08	20	S
Benzo(a)pyrene	0.32	0.070	0.5020	0	63.7	70	130	3.17	20	S
Dibenz(a,h)anthracene	0.69	0.12	1.002	0	68.9	70	130	0	20	S
Benzo(g,h,i)perylene	0.64	0.12	1.000	0	64.0	70	130	1.57	20	S
Indeno(1,2,3-cd)pyrene	1.2	0.080	2.004	0	61.9	70	130	1.63	20	S
Surr: Benzo(e)pyrene	13		20.00		65.4	46.4	106	0		

Sample ID: **LCS-6965**	SampType: **LCS**	TestCode: **EPA Method 8310: PAHs**
Client ID: **LCSW**	Batch ID: **6965**	RunNo: **9888**
Prep Date: **4/14/2013**	Analysis Date: **4/18/2013**	SeqNo: **283869** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	51	2.0	80.00	0	63.6	46	82.9			
1-Methylnaphthalene	54	2.0	80.20	0	66.8	47.2	85.8			
2-Methylnaphthalene	56	2.0	80.00	0	69.4	48.4	84.6			
Acenaphthylene	56	2.5	80.20	0	69.7	58.7	78.7			
Acenaphthene	56	5.0	80.00	0	69.6	55.3	85.1			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304515**

08-May-13

Client: HRL Compliance Solutions

Project: Enterprise WEP III Water Sampling

Sample ID: **LCS-6965**	SampType: **LCS**	TestCode: **EPA Method 8310: PAHs**
Client ID: **LCSW**	Batch ID: **6965**	RunNo: **9888**
Prep Date: **4/14/2013**	Analysis Date: **4/18/2013**	SeqNo: **283869** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
uorene	4.2	0.80	8.020	0	52.4	31.9	82.2			
henanthrene	2.7	0.60	4.020	0	66.9	54.5	81.9			
Anthracene	2.6	0.60	4.020	0	63.7	51.9	82.7			
uoranthene	5.5	0.30	8.020	0	68.7	57.6	83.7			
yrene	5.0	0.30	8.020	0	61.7	53.1	70.4			
Benz(a)anthracene	0.57	0.070	0.8020	0	71.1	48	85.7			
Chrysene	2.6	0.20	4.020	0	64.4	44.3	78.2			
enzo(b)fluoranthene	0.74	0.10	1.002	0	73.9	60	90.4			
Benzo(k)fluoranthene	0.36	0.070	0.5000	0	72.0	61.4	89			
Benzo(a)pyrene	0.34	0.070	0.5020	0	67.7	63.5	88.6			
ibenz(a,h)anthracene	0.70	0.12	1.002	0	69.9	57	92.6			
enzo(g,h,i)perylene	0.70	0.12	1.000	0	70.0	55.4	95.9			
Indeno(1,2,3-cd)pyrene	1.3	0.080	2.004	0	64.4	52.7	88.6			
Surr: Benzo(e)pyrene	15		20.00		73.4	46.4	106			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

WO#: **1304515**

Hall Environmental Analysis Laboratory, Inc.

08-May-13

Client: HRL Compliance Solutions

Project: Enterprise WEP III Water Sampling

Sample ID: **MB-6971** SampType: **MBLK** TestCode: **Total Phenolics by SW-846 9067**

Client ID: **PBW** Batch ID: **6971** RunNo: **9847**

Prep Date: **4/15/2013** Analysis Date: **4/15/2013** SeqNo: **280320** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
henolics, Total Recoverable	ND	2.5								

Sample ID: **LCS-6971** SampType: **LCS** TestCode: **Total Phenolics by SW-846 9067**

Client ID: **LCSW** Batch ID: **6971** RunNo: **9847**

Prep Date: **4/15/2013** Analysis Date: **4/15/2013** SeqNo: **280321** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
henolics, Total Recoverable	20	2.5	20.00	0	102	81.1	120			

Sample ID: **LCSD-6971** SampType: **LCSD** TestCode: **Total Phenolics by SW-846 9067**

Client ID: **LCSS02** Batch ID: **6971** RunNo: **9847**

Prep Date: **4/15/2013** Analysis Date: **4/15/2013** SeqNo: **280338** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
henolics, Total Recoverable	19	2.5	20.00	0	94.7	81.1	120	7.67	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304515**

08-May-13

Client: HRL Compliance Solutions

Project: Enterprise WEP III Water Sampling

Sample ID: **1304515-001e dup**	SampType: **dup**	TestCode: **SM4500-H+B: pH**							
Client ID: **Bill King Well**	Batch ID: **R9854**	RunNo: **9854**							
Prep Date:	Analysis Date: **4/12/2013**	SeqNo: **280551**	Units: **pH units**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
H	7.61	1.68								H

Sample ID: **1304558-002b dup**	SampType: **dup**	TestCode: **SM4500-H+B: pH**							
Client ID: **BatchQC**	Batch ID: **R9854**	RunNo: **9854**							
Prep Date:	Analysis Date: **4/12/2013**	SeqNo: **280564**	Units: **pH units**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
H	7.91	1.68								H

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304515**

08-May-13

Client: HRL Compliance Solutions

Project: Enterprise WEP III Water Sampling

Sample ID: **MB-6974**	SampType: **MBLK**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **PBW**	Batch ID: **6974**	RunNo: **9906**
Prep Date: **4/15/2013**	Analysis Date: **4/16/2013**	SeqNo: **281728** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: **LCS-6974**	SampType: **LCS**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **LCSW**	Batch ID: **6974**	RunNo: **9906**
Prep Date: **4/15/2013**	Analysis Date: **4/16/2013**	SeqNo: **281729** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1020	20.0	1000	0	102	80	120			

Sample ID: **1304525-001AMS**	SampType: **MS**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **BatchQC**	Batch ID: **6974**	RunNo: **9906**
Prep Date: **4/15/2013**	Analysis Date: **4/16/2013**	SeqNo: **281739** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1190	20.0	1000	157.0	103	80	120			

Sample ID: **1304525-001AMSD**	SampType: **MSD**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **BatchQC**	Batch ID: **6974**	RunNo: **9906**
Prep Date: **4/15/2013**	Analysis Date: **4/16/2013**	SeqNo: **281740** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1190	20.0	1000	157.0	103	80	120	0.421	5	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: HRL COMPLIANCE SOL Work Order Number: 1304515 RcptNo: 1

Received by/date: MG 04/11/13

Logged By: **Michelle Garcia** 4/11/2013 4:30:00 PM Michelle Garcia

Completed By: **Michelle Garcia** 4/11/2013 5:31:18 PM Michelle Garcia

Reviewed By: 04/11/13

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☑
2. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
3. How was the sample delivered? Client

Log In

4. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
   Samples were collected the same day and chilled.
6. Sample(s) in proper container(s)? Yes ☑ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
9. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
11. Were any sample containers received broken? Yes ☐ No ☑
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
14. Is it clear what analyses were requested? Yes ☑ No ☐
15. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: 5 (<2 or >12 unless noted)
Adjusted? NO
Checked by: JK

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	11.3	Good	Not Present			

Chain-of-Custody Record

Client: HRL Compliance Solutions Inc

Mailing Address: 2385 F½ Rd.
Grand Junction CO 81635

Phone #: 970-462-5440

email or Fax#: tancell@hrlcomp.com

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation
☑ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name: Enterprise WEPIII water sampling

Project #: 13-110.2

Project Manager: Kay Lambert

Sampler: Theresa Ancell

On Ice: ☑ Yes ☐ No

Sample Temperature: 1.1.2

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1304545
1/11/13	1430	SW	Bill King Well	Various	Secondary	-001

Analysis Request

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	WQCC List				Air Bubbles (Y or N)
											X				

Date	Time	Relinquished by	Received by	Date	Time
1/11/13	1630	Theresa Ancell	Mike Gallegos	01/11/13	1630
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.